

Product Range Catalog

Command and Indication

Build it in.



EATON

Powering Business Worldwide



Energizing a world that demands more.

We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

Discover today's Eaton.

Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2015 sales of \$20.9 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

Eaton.com

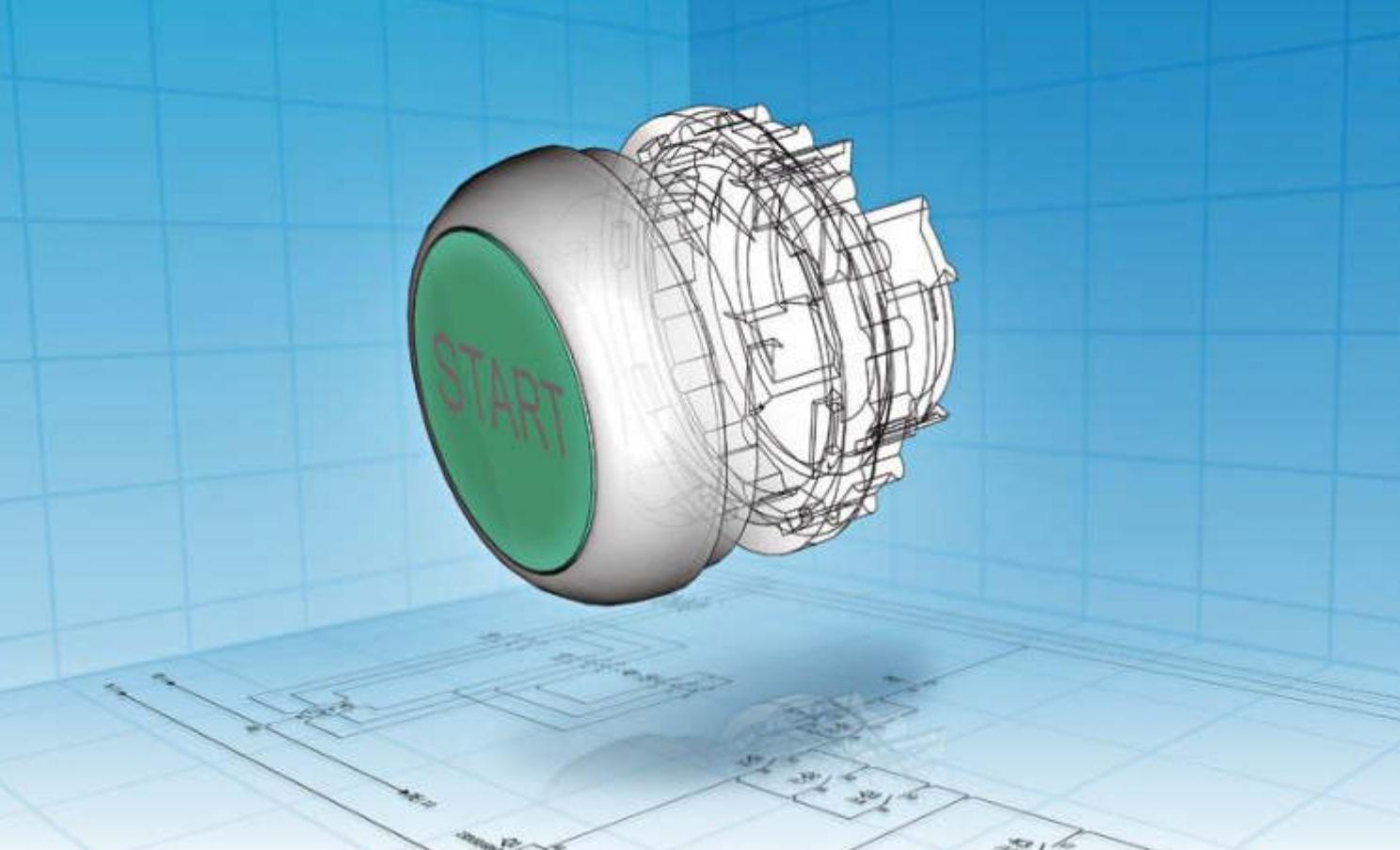
EATON

Powering Business Worldwide

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Moeller™ series

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Planning safety and process optimization: CAD data at the click of a mouse!



- 12,900 article data items and macros
- Convenient selection tool
- Version P8

Eaton is providing its customers with CAD data to offer optimum support during planning. Both electrical and mechanical design data can be called up quickly and conveniently from the Internet at any time. This reduces processing times, minimizes errors and thus reduces costs already in the engineering phase of control panels, systems and machinery.



- Models for approx. 15,000 products
- 80 different neutral & native formats

eCAD: Eaton has product data and macros available for EPLAN Electric P8. After downloading the small EPLANSelection program, you will not only be able to select the items you need from a database containing more than 12,900 products, but will also be able to export them and import them into your own EPLAN item database.

mCAD: Eaton makes 2D and 3D data available for more than 15,000 products. Over 80 different neutral and native formats guarantee compatibility with the project engineering systems of the customer. The models can either be integrated directly into the planning software from the Partcommunity Portal on the Internet or via the CADENAS Partsolution software.

The Pushbutton-Configurator – Select Your Products Quickly and Easily!



The Pushbutton-Configurator is available online and is designed to help you select and combine a variety of pilot devices, such as those found in the RMQ-Titan series. The configurator is user-friendly and neatly laid out, provides a quick overview of the various ranges of products, and uses intuitive user guidance to show solutions that match your needs. In addition, once all individual components have been selected, the configurator will show the assembled final product. Moreover, the setup pane shows selected products directly, making it much easier for you to configure the right components for your application.

The integrated Label Editor function can be used to create custom labels for pilot devices, enabling you to customize your applications as necessary. Moreover, the configurator also makes it possible to easily configure complete devices that are put together in a custom-tailored manner. Once you configure your pilot devices, you will be shown a convenient parts list that you can then use to easily order all the components you need. Combined with the various images and integrated links to data sheets, these parts lists ensure that you can easily put together the required documentation for your projects.

To use the Pushbutton-Configurator, visit:
www.eaton.eu/config/rmq

Build it in.



RMQ-Titan Pilot Devices Proven and Versatile



D^T SmartWire-DT
The easy way to connect

Catalog download:
www.eaton.eu/catalog

The pilot devices in the RMQ-Titan M22 and M30 series are characterized by enormous versatility, making them the perfect solution for a wide variety of applications and processes. In fact, the range of potential applications for which they can be used is further broadened by their high degree of protection. In addition, their ergonomic operators combine stylish design with optimum functionality, and using their new slim contact elements makes it possible to combine RMQ-Titan devices with minimal mounting depths. Finally, their shape and design makes RMQ-Titan pilot devices comfortable and intuitive to use.

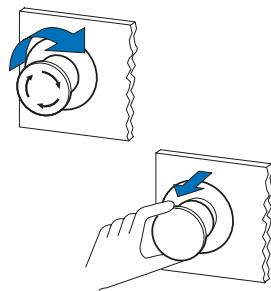
The tried and tested M22 product series is now complemented by M30 elements with a slim design. Contact and LED elements are available in two mounting depths for the flush mounting plates for both series. Moreover, the fact that the pilot devices can be connected to the SmartWire-DT communication system makes them ingeniously simple to wire.

Emergency stop buttons in a wide variety of designs are an important element in ensuring that dangers can be safely averted, and accordingly play a key role in protecting personnel and property. Accordingly, the emergency-stop buttons in the RMQ-Titan series are tamper-proof.

Numerous type approvals and classification society approvals ensure that RMQ-Titan devices can be used worldwide.

In short, this comprehensive range of pilot devices is engineered to ensure that your machines, systems, and processes keep running smoothly.

www.eaton.eu/rmq



Safe shutdown with RMQ-Titan

The EMERGENCY-STOP or EMERGENCY-OFF buttons are available with and without a key, turn-release, non-illuminated, illuminated with standard LED or with mechanical switch position display (green/red) in the centre of the actuation element. Self-monitoring contact blocks guarantee comprehensive operational safety: even with incorrect installation or after unduly powerful actuation.



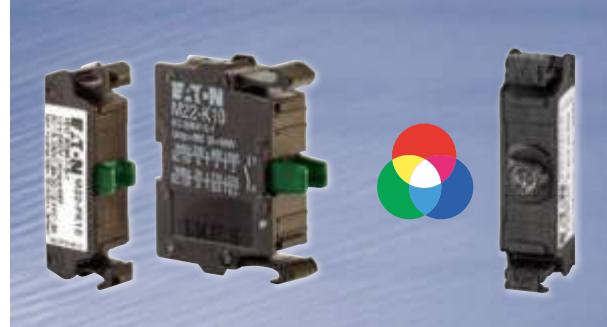
Flush RMQ-Titan buttons

RMQ-Titan units with a flush design are the perfect complement to the industry's move towards stylish front panels for machines. These flush pushbuttons feature a modular design and are the perfect match for the RMQ-Titan series, flush contacts, and LED elements. Moreover, the flush transition between their operator and bezel make these units ideal when it comes to sleek looks and cutting-edge applications.



Easy and flexible assembly

RMQ flat front devices are not only characterized by an attractive and sleek design, but also feature the sophisticated mounting system known as RMQ-AFX. When the knurled nut is tightened, a spring element simultaneously ensures that the assembly will automatically adjust to the thickness of the mounting plate being used. RMQ flat front devices are designed for 30.5 mm mounting holes.



Flush and modular: flat rear elements

These flush contact and LED elements, which have a mounting depth of only 30 mm, are perfect for control panels in which every bit of space counts. They feature a one-of-a-kind modular design when it comes to operators, contacts, LED colors, and accessories, with the flush multi-color LED elements opening a whole new world of possibilities when it comes to intelligent control designs for machines.



Fast, flexible labelling – The Labeleditor

The Label Editor is available as one of the functions in the Pushbutton-Configurator. Once you put together your pilot device combinations, you can use this function to make a customized laser inscription on your button plates using your own company or project-specific label, logo, or image – easily, conveniently, and custom-tailored to your needs! www.eaton.eu/config/rmq



High-precision settings made easy

The M22-SWD encoder makes it possible to set extremely precise settings on machines by simply turning it and confirming. Moreover, its modular design, combined with a direct SmartWire-DT connection, allows for maximum installation flexibility and ease of diagnostics. The M22-SWD encoder also completely eliminates any potential extra costs that would normally be associated with the use of an encoder.



M22

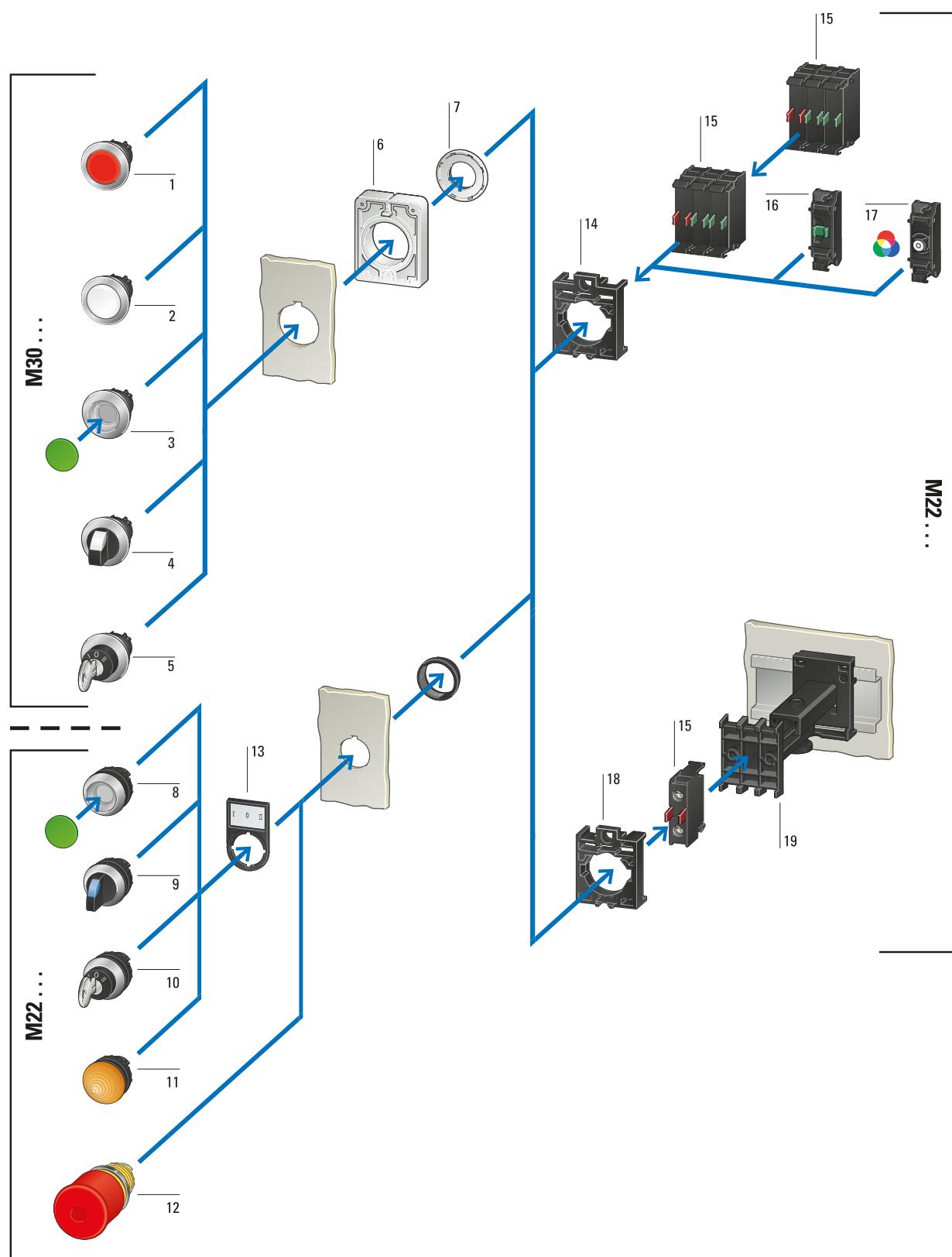
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M30



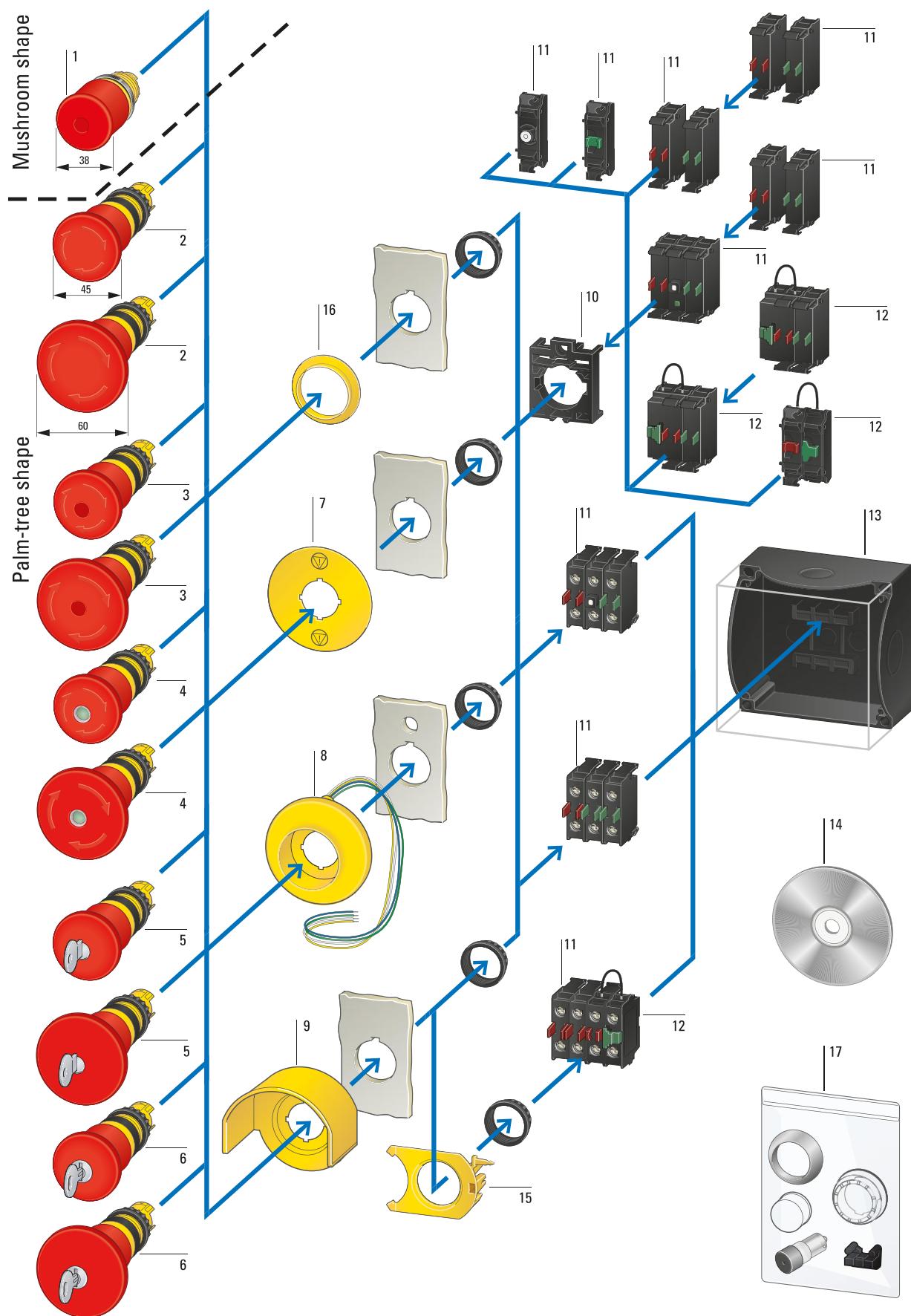
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System overview



M30 indicator lights	1
Style: flush	
Colors: white, green, red, yellow, blue, orange	
→ Page 44	
M30 pushbuttons	2
Momentary and maintained	
Flush	
Colors: white, green, red, yellow, blue, black, grey	
→ Page 40	
M30 illuminated pushbutton actuators	3
Illuminated pushbutton actuators	
Colors: white, green, red, yellow, blue, orange	
→ Page 45	
M30 selector switches	4
2 and 3 positions	
With rotary head, thumb-grip	
Programmable maintained/momentary action	
Illuminated selector switches with transparent thumb-grip	
Colors: white, green, red, yellow, blue	
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M30 key-operated buttons	5
For individual lock mechanisms	
2 or 3 positions	
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RMQ-AFX	6
Anti-rotation tab	
Included with the equipment supplied with M30 front elements	
Threaded rings	7
→ Page 70	
M22 pushbuttons	8
Momentary and maintained	
Flush	
Colors: white, green, red, yellow, blue, black	
Illuminated pushbutton actuators	
Colors: white, green, red, yellow, blue, orange	
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M22 selector switches	9
2 and 3 positions	
With rotary head, thumb-grip	
Programmable maintained/momentary action	
Illuminated selector switches with transparent thumb-grip	
Colors: white, green, red, yellow, blue	
→ Page 28	
M22 key-operated buttons	10
For individual lock mechanisms	
2 or 3 positions	
→ Page 29	
M22 indicator lights	11
Style: flush, conical	
Colors: white, green, red, yellow, blue, orange	
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Controlled stop/emergency stop buttons	12
Tamper-proof as defined in ISO 13850/EN 418	
Can be secured with a sealable shroud	
Additional labels, with inscription or blank	
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Label mounts	13
For insert labels	
Color: black	
Insert labels: aluminum color, with inscription or blank, can be engraved	
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Mounting adapters	14
For flush mounting	
For contact and LED elements	
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Contact elements	15
N/C and N/O	
Universal contacts suitable for use with electronic devices	
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	
Max. 2 levels, each with 3 contact elements	
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Centering adapter	18
For centering pilot device elements when using a telescopic clip	
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For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets	
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1

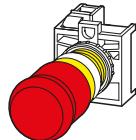


Controlled stop buttons	1	Controlled stop buttons	5	Mounting adapters	10
Emergency stop buttons		Emergency stop buttons		For flush mounting	
Mushroom-shaped		Palm shaped		For contact and LED elements when using M22-A...	
Non-illuminated		With MS1 - MS20 lock mechanism		For contact elements when using M22-A4	
Can be illuminated with LED		45 mm and 60 mm diameter		→ Page 48	
With MS1 - MS20 lock mechanism		Tamper-proof as defined in ISO 13850/EN 418		Contact elements, indicator lights	11
With lock mechanism for master key system		European Machinery Safety Directive 2006/42/EC		N/C and N/O	
Tamper-proof as defined in ISO 13850/EN 418		Additional labels, with inscription or blank		Universal contacts suitable for use with electronic devices	
European Machinery Safety Directive 2006/42/EC		Twist release		Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	
Can be secured with a sealable shroud		→ Page 14		Max. 2 levels, each with 3 contact elements	
Additional labels, with inscription or blank		Controlled stop buttons	6	→ Page 48	
Twist release		Emergency stop buttons		Self-monitoring contacts	12
→ Page 13		Palm shaped		Front mounting or base mounting	
Controlled stop buttons	2	With Ronis 455 lock mechanism		1 N/C and 1 N/O in series	
Emergency stop buttons		45 mm and 60 mm diameter		Versions: 2 N/C 1 N/O; 1 N/C 1 N/O	
Palm shaped		Tamper-proof according to ISO 13850/EN 418		For safety standards of up to SIL 3 as defined in EN 62061 or performance level e as defined in ISO 13849-1	
Non-illuminated		European Machinery Safety Directive 2006/42/EC		→ Page 49	
45 mm and 60 mm diameter		Can be secured with a sealable shroud		Enclosures	13
Tamper-proof as defined in ISO 13850/EN 418		Additional labels, with inscription or blank		IP67 surface mounting enclosures with up to 6 mounting locations	
European Machinery Safety Directive 2006/42/EC		Twist or pull release		IP55 surface mounting enclosures with up to 12 mounting locations	
Additional labels, with inscription or blank		→ Page 14		IP54 flush mounting plates with up to 6 mounting locations	
Twist release		Controlled stop legend plates	7	IP40 shrouds for flush mounting plates	
→ Page 14		Emergency stop legend plates		→ Page 67	
Controlled stop buttons	3	Round, square, and rectangular types		Convenient labeling	14
Emergency stop buttons		Single-language, multi-language, custom inscription possible		A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.	
Palm shaped		→ Page 17		Download: www.eaton.eu/config/rmq	
Can be illuminated with LED		Illuminated rings	8	Keyword: "Pushbutton Configurator → Label Editor function"	
45 mm and 60 mm diameter		Versions:			
Tamper-proof as defined in ISO 13850/EN 418		24 V AC/DC, 120 V AC, 230 V AC		Signal contact actuators for SMC	15
European Machinery Safety Directive 2006/42/EC		Solid light		→ Page 49	
Additional labels, with inscription or blank		Flashing light with separate driver		Controlled stop/emergency stop legend plates	16
Twist release		Chaser light with separate driver, 24 V AC/DC		Requiring little space	
→ Page 14		With three LED rows that can be driven separately		→ Page 18	
Controlled stop buttons	4	→ Page 16		Accessories	17
Emergency stop buttons		Guard rings	9	→ Page 69	
Palm shaped		For preventing unintended actuation			
With mechanical position indicator		For 38 mm and 45 mm designs			
45 mm and 60 mm diameter		→ Page 16			
Tamper-proof as defined in ISO 13850/EN 418					
European Machinery Safety Directive 2006/42/EC					
Additional labels, with inscription or blank					
Twist release					
→ Page 14					

Product selection

Contact configuration: \ominus = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

N/O = Normally open contact N/C = Normally closed contact

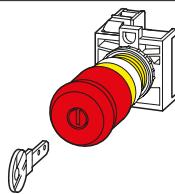
Emergency stop buttons

Tamper-proof as defined in ISO 13850/EN 418

Pull release

Max. number of contacts: 4 x M22-(C)K...
Red mushroom head, yellow base

	Contact sequence	Degree of protection	Part no.	Std. pack	Notes
–	1 N/C \ominus	IP66, IP69K	M22-PV/K01 216515	5 units	 
1 N/O	1 N/C \ominus	IP66, IP69K	M22-PV/K11 216516	5 units	

Emergency stop key-release mushroom button

Tamper-proof as defined in ISO 13850/EN 418

With 1 key, MS1 individual lock mechanism, not suitable for master key systems

Key release

Red mushroom head, yellow base

	Contact sequence	Degree of protection	Part no.	Std. pack
–	1 N/C \ominus	IP67, IP69K	M22-PVS/K01 216514	5 units



BAUART
GEPRÜFT
TYPE
APPROVED

Number of operators	Contact configuration: \ominus = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Degree of protection	Part no.	Std. pack
---------------------	--	------------------	----------------------	----------	-----------

Qty.	N/O = Normally open contact N/C = Normally closed contact				
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Emergency stop buttons

Tamper-proof as defined in ISO 13850/EN 418

Pull release

–	–	2 N/C		IP66, IP69K	M22-PV/KC02/IY 216524	1 unit
–	1 N/O	1 N/C \ominus		IP66, IP69K	M22-PV/KC11/IY 216525	

Emergency stop key-release mushroom button

With 1 key
MS1 lock mechanism

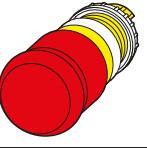
1	1 N/O	1 N/C \ominus		IP67, IP69K	M22-PVS/KC11/IY 216523	1 unit
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Customized complete devices

To order, use form F0315

→ Data sheet in online catalog

M22-COMBINATION
2010741 1 unit

	Illumination	Color, mushroom head symbol	Degree of protection	Part no. Article no.	Std. pack
Controlled stop/emergency stop buttons					
Pull release 38 mm button diameter 	Without illumination Pull release	●	IP66, IP69K	M22-PV 216876	5 units
	Without illumination Pull release	●	IP66, IP69K	M22-PV-GVP 216877	50 units
	Without illumination Pull release	● (V)	IP66, IP69K	M22-PV-ESS 178983	5 units
	Can be illuminated with LED element Pull release	● (+)	IP66, IP69K	M22-PVL 216878	
Twist release 38 mm button diameter 	Without illumination Twist release	● (T)	IP67, IP69K	M22-PVT 263467	5 units
	Can be illuminated with LED element Twist release	● (T)	IP67, IP69K	M22-PVLT 263469	
Key release 38 mm button diameter with 1 key 	Without illumination MS1 individual lock mechanism Not suitable for master key systems	●	IP67, IP69K	M22-PVS 216879	5 units
	Without illumination MS2 - MS20 individual lock mechanism Not suitable for master key systems *→ 2, ..., 20 (i.e.: M22-PVS-MS2, ..., M22-PVS-M20)	●	IP67, IP69K	M22-PVS-MS* 216880	1 unit
	Without illumination Suitable for master key systems To order, use form MZ047002ZU (formerly F0276) → Data sheet in online catalog Delivery will take approx. 4 to 6 weeks For master key systems, please refer to → Page 30	●	IP67, IP69K	M22-PVS-SA(*)-* 104826	

	Illumination	Mushroom head color	Part no. Article no.	Std. pack
Controlled stop/emergency stop buttons, IP67, IP69K				
Pull release Palm, 45 mm diameter	Without illumination	●	M22-PV45P 152862	1 unit
	Without illumination With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	M22-PV45P-MPI 152863	
	Can be illuminated with LED element	●	M22-PVL45P 152860	
Twist release Palm, 45 mm diameter	Without illumination	–	M22-PVT45P 121462	1 unit
	Can be illuminated with LED element	–	M22-PVLT45P 121460	
	Without illumination With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	M22-PVT45P-MPI 121463	
Key release Palm, 45 mm diameter with 1 key	Without illumination MS1 individual lock mechanism Not suitable for master key systems	●	M22-PVS45P-MS1 121468	1 unit
	Without illumination MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, ..., 20 (i.e.: M22-PVS45P-MS2, ..., M22-PVS45P-MS20)	●	M22-PVS45P-MS* 121470	
	Without illumination Ronis 455 individual lock mechanism Not suitable for master key systems	●	M22-PVS45P-RS 121466	
Controlled stop/emergency stop buttons, IP67, IP69K				
Pull release Palm, 60 mm diameter	Without illumination	●	M22-PV60P 152864	1 unit
	Without illumination With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	M22-PV60P-MPI 152865	
	Can be illuminated with LED element	●	M22-PVL60P 152861	
Twist release Palm, 60 mm diameter	Without illumination	–	M22-PVT60P 121464	
	Can be illuminated with LED element	–	M22-PVLT60P 121461	
	Without illumination With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	M22-PVT60P-MPI 121465	
Key release Palm, 60 mm diameter with 1 key	Without illumination MS1 individual lock mechanism Not suitable for master key systems	●	M22-PVS60P-MS1 121469	
	Without illumination MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, ..., 20 (i.e.: M22-PVS60P-MS2, ..., M22-PVS60P-MS20)	●	M22-PVS60P-MS* 121471	
	Without illumination Ronis 455 individual lock mechanism Not suitable for master key systems	●	M22-PVS60P-RS 121467	

	Mushroom head color	Contact configuration N/O = Normally open contact	N/C = Normally closed contact	Part no. Article no.	Std. pack	1
Controlled stop/emergency stop buttons, IP67, IP69K						
Twist release Palm, 45 mm diameter	Without illumination		2 N/C ⊕	C22-PVT45P-K02 121611	1 unit	
	Without illumination		1 N/O	1 N/C ⊖	C22-PVT45P-K11 121610	
Key release, MS1 Palm, 45 mm diameter						
	Without illumination		2 N/C ⊕	C22-PVS45P-MS1-K02 121619		
	Without illumination		1 N/O	1 N/C ⊖	C22-PVS45P-MS1-K11 121618	
Twist release Palm, 60 mm diameter						
	Without illumination		2 N/C ⊕	C22-PVT60P-K02 121621		
	Without illumination		1 N/O	1 N/C ⊖	C22-PVT60P-K11 121620	
Key release, MS1 Palm, 60 mm diameter						
	Without illumination		2 N/C ⊕	C22-PVS60P-MS1-K02 121613		
	Without illumination		1 N/O	1 N/C ⊖	C22-PVS60P-MS1-K11 121612	

Notes

⊕ Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

1

RAL number	Degree of protection	Part no. Article no.	Std. pack
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Guard rings

Makes accidental actuation more difficult



RAL 1004	IP65	M22-XGPV 231273	1 unit
RAL 1004	IP65	M22-XGPV3 177047	

Sealable shroud

For devices with a 38 mm button diameter

Transparent with detachment position; can be reused after controlled stop/emergency stop/stop

Adjacent holes must be sealed with M22(S)-B blanking plugs in a 30 x 50 grid



–	IP65	M22-PL-PV 216397	2 units
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LED-luminous rings

Yellow with yellow LEDs

→ Engineering, Page 75 (circuit diagrams)

60 mm diameter 24 V AC/DC Three groups, with 4 LEDs each (connected in series), that can be driven separately (e.g., for a chaser light sequence)	M22-XPV60-Y-24 121477	1 unit
60 mm diameter 120 V AC One group of 8 LEDs (connected in series)	M22-XPV60-Y-120 121476	1 unit
60 mm diameter 230 V AC One group of 8 LEDs (connected in series)	M22-XPV60-Y-230 138280	1 unit

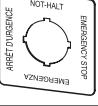
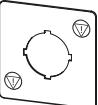
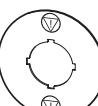
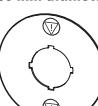
Customized complete devices

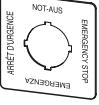
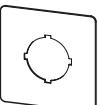
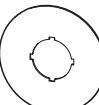
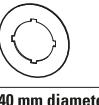
To order, use form F0315

→ Data sheet in online catalog

M22-COMBINATION 2010741	1 unit
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Note: Contact elements → Page 48

Inscription	Language	Color	Part no. Article no.	Std. pack
Controller stop legend plates, IP66				
33 x 50 mm	Black lettering			
	NOT-HALT	de	 M22-XZK1-D99 121089	10 units
	Arresto di emergenza	it	 M22-XZK1-I99 121370	
	HÄTÄPYSÄYTYS	fi	 M22-XZK1-SF99 121371	
33 x 50 mm	Symbol (5638) for controlled stop	–	 M22-XZK-ESS 180470	
50 x 50 mm	Four languages	de, en, fr, it	 M22-XYK11 121373	
				
33 x 50 mm	Symbol (5638) for controlled stop	–	 M22-XZK-ESS2 180474	
90 mm diameter	Four languages	de, en, fr, it	 M22-XAK11 121085	
				
	Four languages	de, en, es, pt	 M22-XAK12 121086	
	Four languages	de, en, nl, fr	 M22-XAK13 121087	
	Four languages	en, sv, fi, da	 M22-XAK14 121088	
50 x 50 mm	Symbol (5638) for NOT-HALT	–	 M22-XYK-ESS 180471	
				
60 mm diameter	Four languages	de, en, fr, it	 M22-XBK11 121372	
				
90 mm diameter	Symbol (5638) for controlled stop	–	 M22-XAK-ESS 180469	
				
60 mm diameter	Symbol (5638) for controlled stop	–	 M22-XBK-ESS 180472	
				

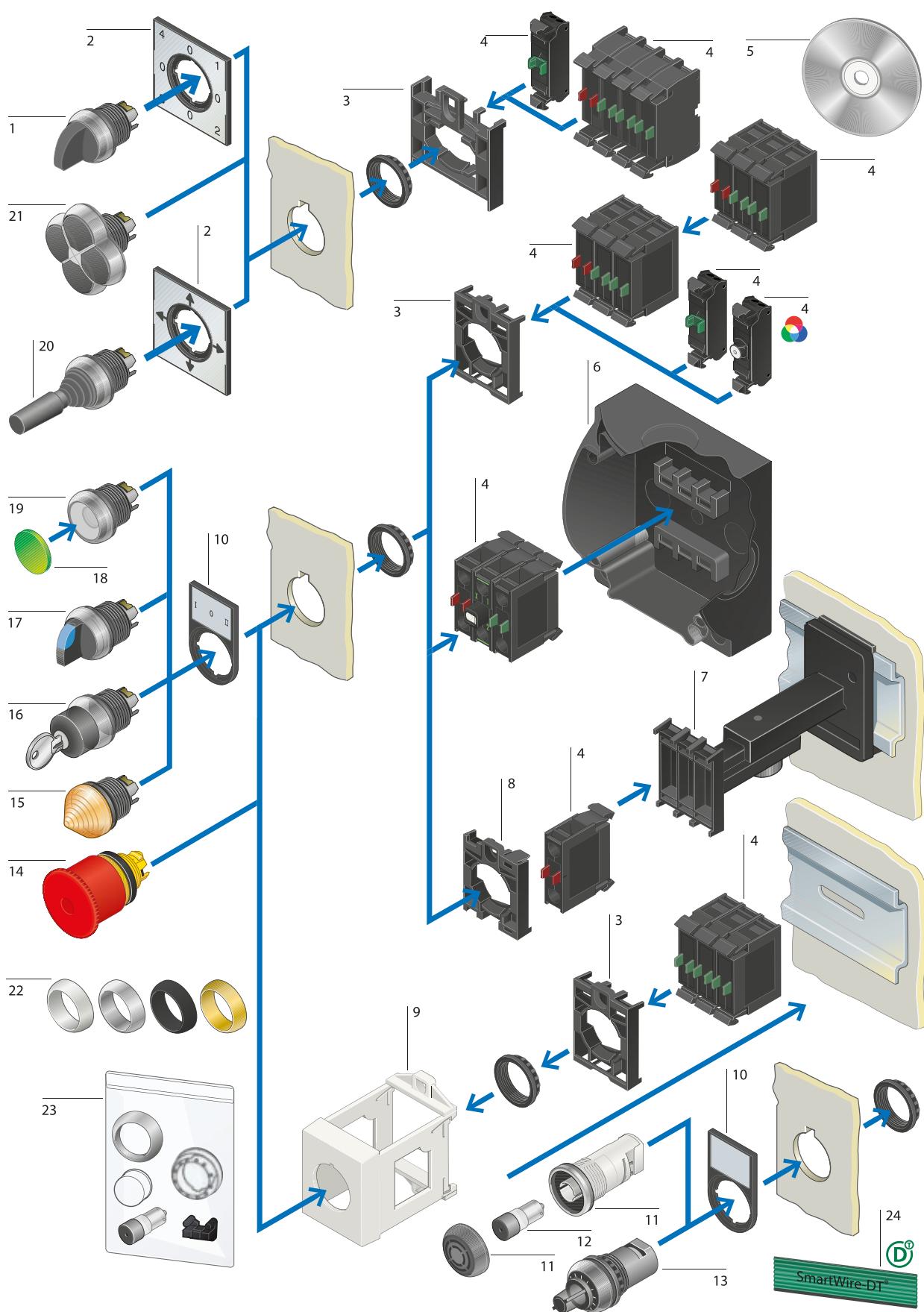
Inscription	Language	Color	Part no. Article no.	Std. pack
Emergency stop legend plates, IP66				
33 x 50 mm	Black lettering			
	NOT-AUS	de	M22-XZK-D99 216471	10 units
	Emergency Stop	en	M22-XZK-GB99 216472	
	Arrêt d'urgence	fr	M22-XZK-F99 216473	
	EMERGENZA	it	M22-XZK-I99 216474	
	NOODSTOP	nl	M22-XZK-NL99 216475	
	NÖDSTOPP	sv	M22-XZK-S99 216476	
	HÄTÄ-SEIS	fi	M22-XZK-SF99 216477	
	NØDSTOP	da	M22-XZK-DK99 216478	
50 x 50 mm	–	de, en, fr, it	M22-XYK1 216484	
				
90 mm diameter	–	de, en, fr, it	M22-XAK1 216465	
				
–	–	de, en, es, pt	M22-XAK2 216466	
–	–	de, en, nl, fr	M22-XAK3 216467	
–	–	en, sv, fi, da	M22-XAK4 216468	
60 mm diameter	Four languages	de, en, fr, it	M22-XBK1 216483	
				
Controlled stop/emergency stop legend plates				
33 x 50 mm	With customized Label Editor inscription – → Engineering, Page 74		M22-XZK-* 216479	10 pieces
	Blank	–	M22-XZK 216470	
50 x 50 mm	With customized Label Editor inscription – → Engineering, Page 74		M22-XYK-* 231181	
				
90 mm diameter	With customized Label Editor inscription – → Engineering, Page 74		M22-XAK-* 216469	
	Blank	–	M22-XAK 216464	
60 mm diameter	With customized Label Editor inscription – → Engineering, Page 74		M22-XBK-* 231762	
	Blank	–	M22-XBK 269580	
40 mm diameter	Blank, for small installation spaces	–	M22-XAK40 177703	
				



	Mushroom head color	Degree of protection	Part no. Article no.	Std. pack
Stop pushbuttons				
Non-illuminated, pull release	●	IP66, IP69K 225528	M22S-PV 225528	5 units
Non-illuminated, twist release	●	IP67, IP69K 271499	M22S-PVT 271499	
Non-illuminated, twist release	●	IP67, IP69K 147403	M22Y-PVT 147403	
Illuminated, pull release	●	IP66, IP69K 230962	M22S-PVL 230962	
Illuminated, twist release	●	IP67, IP69K 271540	M22S-PVLT 271540	
Guard ring for stop pushbutton				
–	●	IP65 271610	M22G-XGPV 271610	1 unit

1

System overview



M22 4-way selector switches	1
4 positions	
With rotary head or thumb-grip	
0-1-0-2-0-3-0-4 maintained action	
→ Page 28	
Labels with label mounts	2
Color: aluminum	
Labels: with inscription, with custom inscription, blank	
→ Page 32	
Mounting adapters	3
For flush mounting	
For contact and LED elements when using M22-A...	
For contact elements when using M22-A4	
→ Page 48	
(Double) contact elements	4
N/C and N/O	
Universal contacts suitable for use with electronic devices	
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	
Max. 2 levels, each with 3 contact elements	
→ Page 49	
LED elements	4
Voltage range:	
12 - 30 V AC/DC	
85 - 264 V AC	
→ Page 51	
Convenient labeling	5
A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.	
Download: www.eaton.eu/config/rmq	
Keyword: "Pushbutton Configurator"	
→ Label Editor function"	
Enclosures	6
IP67 surface mounting enclosures with up to 6 mounting locations	
IP55 surface mounting enclosures with up to 12 mounting locations	
IP54 flush mounting plates with up to 6 mounting locations	
IP40 and IP55 shrouds for flush mounting plates	
→ Page 67	
Telescopic clip	7
4 positions	
For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets	
→ Page 69	
Centering adapter	8
For centering pilot device elements when using a telescopic clip	
→ Page 69	
IVS top-hat rail adapter	9
For direct mounting on IEC/EN 60175 DIN-rail	
→ Page 70	
Label mounts	10
For insert labels	
Color: black	
Insert labels: aluminum color, with inscription or blank, can be engraved	
→ Page 57	
Acoustic device	11
IP40 degree of protection without buzzer	
→ Page 34	
Buzzer for acoustic device	12
Continuous tone, pulse tone	
18 - 30 V DC	
→ Page 34	
Potentiometers	13
Resistances of 1 kΩ - 1 MΩ	
3 individual connections	
With screw terminals	
→ Page 34	
Controlled stop/emergency stop buttons	14
Tamper-proof as defined in ISO 13850/EN 418	
Can be secured with a sealable shroud	
Additional labels, with inscription or blank	
→ Page 14	
Indicator lights	15
Style: flush, conical	
Colors: white, green, red, yellow, blue	
→ Page 33	
Key-operated buttons	16
2 and 3 positions	
Programmable momentary/maintained action and key withdraw	
Suitable for master key systems	
→ Page 29	
Selector switches	17
2 and 3 positions	
With rotary head, thumb-grip	
Programmable maintained/momentary action	
Illuminated selector switches with transparent thumb-grip	
Colors: white, green, red, yellow, blue	
→ Page 28	
Button plates/button lenses	18
Laser inscription for pushbuttons and mushroom pushbuttons	
Button lenses for illuminated pushbutton actuators and indicator lights, flush	
With standard texts and symbols or with customized inscriptions	
→ Page 60	
Pushbuttons	19
Momentary and maintained	
Flush and extended	
With and without guard ring	
Mushroom pushbuttons, double actuator pushbuttons	
Colors: white, green, red, yellow, blue, black	
Illuminated pushbutton actuators	
Colors: white, green, red, yellow, blue	
→ Page 25	
Joysticks	20
4 positions	
→ Page 31	
4-way pushbuttons	21
4 positions	
Pushbuttons, momentary	
→ Page 32	
Bezels	22
• Silver	
• Black	
• 24 carat gold can only be ordered with M22-COMBINATION	
→ Page 69	
Accessories	23
→ Page 69	
SmartWire-DT	24
Product characteristics	
• Clip-fit assembly modular system	
• Silver, black, or gold bezel	
• Mounting hole diameter: 22.3 mm	
• Minimum grid dimension: 30 x 40 mm	
• Min. degree of protection: IP66	
• Up to 6 contacts per mounting location	
• For switching differing potentials	
• Approved throughout the world	

Product selection

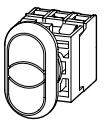
Button plate	Contact configuration: ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Degree of protection	Silver bezel	Part no. Article no.	Std. pack
	N/O = Normally open contact N/C = Normally closed contact					



Pushbuttons

Flush

	–	1 N/C ⊕		IP67, IP69K	M22-D-R-X0/K01 216510	5 units
	1 N/O	–		IP67, IP69K	M22-D-G-X1/K10 216512	5 units



Double actuator pushbutton with LED element, white lens

85 - 264 V AC

	1 N/O	1 N/C ⊕		IP66	M22-DDL-GR-X1/X0/K11/230-W 216509	5 units
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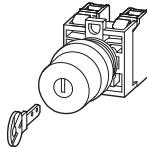
Selector switches

Black thumb-grip

Maintained/momentary action, can be changed with M22-XC-Y configuration adapters → Page 74
Switch positions 0, I, II correspond to the operator's position when viewed from the front.

Gold-plated bezel → Page 69

2 positions Maintained	–	1 N/O	–		IP66	M22-WRK/K10 216518	5 units
3 positions Maintained	–	2 N/O	–		IP66	M22-WRK3/K20 216520	5 units



Key-operated button

Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74
2 positions maintained
MS1 lock mechanism, with 1 key

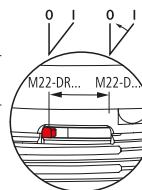
–	–	1 N/O	1 N/C ⊕		IP66	M22-WRS/K11 216517	5 units
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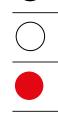
Number of operators	Contact configuration: ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Color of enclosure top	Degree of protection	Silver bezel Part no. Article no.	Std. pack
Qty.	N/O = Normally open contact N/C = Normally closed contact		RAL number			
Pushbuttons						
Flush						
1	1 N/O	1 N/C ⊕			RAL 7035 IP67, IP69K M22-D-G-X1/KC11/I 216522	1 unit
					RAL 7035 IP67, IP69K M22-D-R-X0/KC11/I 216521	
Key-operated button						
Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74 With 1 key 2 positions, maintained MS1 lock mechanism						
1	1 N/O	1 N/C ⊕			RAL 7035 IP66 M22-WRS/KC11/I 216526	1 unit
Assembled control station						
Without indicator lights	2	2 N/O	2 N/C ⊕			RAL 7035 IP67, IP69K M22-I2-M1 216529
With white indicator light, LED element 85 - 264 V AC	2	2 N/O	2 N/C ⊕			RAL 7035 IP67, IP69K M22-I3-M2 216533
Assembled control station						
	3	3 N/O	3 N/C ⊕			RAL 7035 IP67, IP69K M22-I3-M1 216532
Customized complete devices						
To order, use form F0315 → Data sheet in online catalog						
M22-COMBINATION 1 unit 2010741						

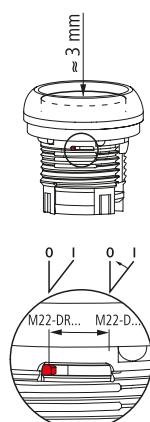
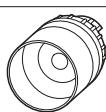
1

Style	Button plate	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
Double actuator pushbuttons with indicator light, IP66				
	White lens Momentary Gold-plated bezel → Page 69			
Extended pushbuttons and indicator light				
	 	M22-DDL-GR 216698	M22S-DDL-GR 216699	5 units
	 	M22-DDL-GR-X1/X0 216700	M22S-DDL-GR-X1/X0 216701	
	 	M22-DDL-GR-GB1/GB0 216702	M22S-DDL-GR-GB1/GB0 216703	
	 	M22-DDL-WS 216704	M22S-DDL-WS 216705	
	 	M22-DDL-WS-X1/X0 216706	M22S-DDL-WS-X1/X0 216707	
	 	M22-DDL-WS-GB1/GB0 216708	M22S-DDL-WS-GB1/GB0 216709	
	 	M22-DDL-S-X7/X7 216710	M22S-DDL-S-X7/X7 216711	
	 	M22-DDL-S-X226/X26 105227	–	
	 	M22-DDL-S-X4/X5 218145	M22S-DDL-S-X4/X5 218146	
	With customized Label Editor inscription → Notes	M22-DDL-*-*-* 226770	M22S-DDL-*-*-* 230350	
Flush pushbuttons and indicator light				
	 	M22-DDLF-GR-X1/X0 284814	M22S-DDLF-GR-X1/X0 284815	5 units
	 	M22-DDLF-WS-X1/X0 284816	M22S-DDLF-WS-X1/X0 284817	
	With customized Label Editor inscription → Notes	M22-DDLF-*-*-* 284818	M22S-DDLF-*-*-* 284819	
Pushbutton I and indicator light flush, pushbutton O extended				
	 	M22-DDLM-GR-X1/X0 284830	M22S-DDLM-GR-X1/X0 284831	5 units
	 	M22-DDLM-WS-X1/X0 284832	M22S-DDLM-WS-X1/X0 284833	
	With customized Label Editor inscription → Notes	M22-DDLM-*-*-* 107062		
Notes	1st wildcard (*)	= Button plate color: B = Blue, G = Green, R = Red, S = Black B/S = Blue top/black base G/R = Green top/red base G/S = Green top/black base W/S = White top/black base		
	2nd and 3rd wildcards (*)	= Filename assigned by Label Editor (enter twice) Additional color combinations available upon request → Engineering, Page 74		

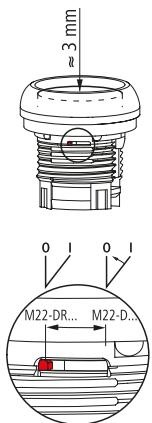
Button plate	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack	Notes
IP67, IP69K pushbuttons					
Gold-plated bezel → Page 69					
Flush, momentary 	M22-D-S 216590	10 units	M22S-D-S 216591	10 units	–
	M22-D-W 216592		M22S-D-W 216593		
	M22-D-R 216594		M22S-D-R 216595		
	M22-D-G 216596		M22S-D-G 216597		
	M22-D-Y 216598		M22S-D-Y 216599		
	M22-D-B 216600		M22S-D-B 216601		
	M22-D-GR 132671		M22S-D-GR 132672		
	M22-D-X 216602		M22S-D-X 216604		
	M22-D-X-GVP 216603	50 units			
	M22-D-R-X0 216605	10 units	M22S-D-R-X0 216606	10 units	
	M22-D-G-X1 216607		M22S-D-G-X1 216608		
	M22-D-S-X0 216609		M22S-D-S-X0 216610		
	M22-D-W-X1 216611		M22S-D-W-X1 216612		
Flush, maintained 	M22-DR-S 216613	5 units	M22S-DR-S 216614	5 units	Programmable maintained/ momentary pushbutton action
	M22-DR-W 216615		M22S-DR-W 216616		
	M22-DR-R 216617		M22S-DR-R 216618		
	M22-DR-G 216619		M22S-DR-G 216620		
	M22-DR-Y 216621		M22S-DR-Y 216622		
	M22-DR-B 216623		M22S-DR-B 216624		
	M22-DR-X 216625		M22S-DR-X 216627		
	M22-DR-X-GVP 216626	50 units			
	M22-DR-R-X0 216628	5 units	M22S-DR-R-X0 216629	5 units	
	M22-DR-G-X1 216630		M22S-DR-G-X1 216631		
	M22-DR-S-X0 216632		M22S-DR-S-X0 216633		
	M22-DR-W-X1 216634		M22S-DR-W-X1 216635		



	Silver bezel Button plate	Std. pack Part no. Article no.	Black bezel Std. pack Part no. Article no.	Notes
IP67, IP69K pushbuttons				
Gold-plated bezel → Page 69				
Extended, momentary				
	M22-DH-S 216636	5 units	M22S-DH-S 216637	5 units –
	M22-DH-W 216638		M22S-DH-W 216639	
	M22-DH-G 216643		M22S-DH-G 216645	
	M22-DH-R 216641		M22S-DH-R 216642	
	M22-DH-Y 216646		M22S-DH-Y 216647	
	M22-DH-B 216649		M22S-DH-B 216650	
	M22-DH-R-X0 216655		M22S-DH-R-X0 216656	
	M22-DH-G-X1 216657		M22S-DH-G-X1 216658	
	M22-DH-S-X0 216659		M22S-DH-S-X0 216660	
	M22-DH-W-X1 216661		M22S-DH-W-X1 216662	
Extended, maintained				
	M22-DRH-S 216663	5 units	M22S-DRH-S 216664	5 units
	M22-DRH-W 216665		M22S-DRH-W 216666	Programmable maintained/ momentary pushbutton action
	M22-DRH-R 216667		M22S-DRH-R 216668	
	M22-DRH-G 216669		M22S-DRH-G 216670	
	M22-DRH-Y 216671		M22S-DRH-Y 216672	
	M22-DRH-B 216673		M22S-DRH-B 216674	
	M22-DRH-R-X0 216675		M22S-DRH-R-X0 216676	
	M22-DRH-G-X1 216677		M22S-DRH-G-X1 216678	
	M22-DRH-S-X0 216679		M22S-DRH-S-X0 216680	
	M22-DRH-W-X1 216681		M22S-DRH-W-X1 216682	
Pushbuttons with guard ring, momentary, IP66, IP69K				
Gold-plated bezel → Page 69				
–	M22-DG-X 220921	5 units	–	–



Button plate	Button color	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack	Notes
Mushroom pushbuttons, IP67, IP69K						
Gold-plated bezel → Page 69						
Momentary						
● ●		M22-DP-S 216712	5 units	M22S-DP-S 216713	5 units	–
● ●		M22-DP-R 216714		M22S-DP-R 216715		
● ●		M22-DP-G 216716		M22S-DP-G 216717		
● ●		M22-DP-Y 216718		M22S-DP-Y 216719		
● ●		M22-DP-R-X0 216720		M22S-DP-R-X0 216721		
● ●		M22-DP-G-X1 216722		M22S-DP-G-X1 216723		
● ●		M22-DP-S-X0 216724		M22S-DP-S-X0 216725		
● ●		M22-DP-W-X1 216726		M22S-DP-W-X1 216727		
– ●		M22-DP-S-X 216728		M22S-DP-S-X 216730		
– ●		M22-DP-R-X 216731		M22S-DP-R-X 216733		
– ●		M22-DP-G-X 216734		M22S-DP-G-X 216736		
– ●		M22-DP-Y-X 216737		M22S-DP-Y-X 216739		
Maintained						
● ●		M22-DRP-S 216743	5 units	M22S-DRP-S 216744	5 units	Programmable maintained/momentary pushbutton action
● ●		M22-DRP-R 216745		M22S-DRP-R 216746		
● ●		M22-DRP-G 216747		M22S-DRP-G 216748		
● ●		M22-DRP-Y 216749		M22S-DRP-Y 216750		
● ●		M22-DRP-R-X0 216751		M22S-DRP-R-X0 216752		
● ●		M22-DRP-G-X1 216753		M22S-DRP-G-X1 216754		
● ●		M22-DRP-S-X0 216755		M22S-DRP-S-X0 216756		
● ●		M22-DRP-W-X1 216757		M22S-DRP-W-X1 216758		
– ●		M22-DRP-S-X 216759		M22S-DRP-S-X 216761		
– ●		M22-DRP-R-X 216762		M22S-DRP-R-X 216764		
– ●		M22-DRP-G-X 216765		M22S-DRP-G-X 216767		
– ●		M22-DRP-Y-X 216768		M22S-DRP-Y-X 216770		



Action:	Button plate	Inscription	Function	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
↗ = Momentary (M0)							
↙ = Maintained (MA)							

Selector switches, IP66

Gold-plated bezel → Page 69

Maintained/momentary action can be changed with configuration kit → Page 30

2 positions**With rotary head**

↗ 40°		–	–	M22-W 216853	5 units	M22S-W 216854	5 units
↙ 60°		–	–	M22-WR 216855		M22S-WR 216856	
↙ 60°		–	–	M22-WR-X92 216857		M22S-WR-X92 216858	
↙ 60°		AUTO MANUAL	–	M22-WR-X91 216859		M22S-WR-X91 216860	
↙ 60°		* = With customized Label Editor inscription → Page 74	–	M22-WR-* 226836		M22S-WR-* 226837	

With thumb-grip

↗ 40°	–	–	–	M22-WK 216865	5 units	M22S-WK 216866	5 units
↙ 60°	–	–	–	M22-WRK 216867	10 units	M22S-WRK 216869	10 units
↙ 60°	–	–	–	M22-WRK-GVP 216868	50 units		50 units

**With thumb-grip,
V configuration**

↙ 60°	–	–	–	M22-WKV 216874	5 units	M22S-WKV 216875	5 units
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3 positions

With plunger bridge → Page 74

With rotary head

40° ↗ 40°		–	–	M22-W3 216861	5 units	M22S-W3 216862	5 units
60° ↓ 60°		–	–	M22-WR3 216863		M22S-WR3 216864	
60° ↓ 60°		AUTO 0 MAN.	–	M22-WR3-X94 226838		M22S-WR3-X94 226839	
60° ↓ 60°		* = With customized Label Editor inscription → Page 74	–	M22-WR3-* 226840		M22S-WR3-* 226841	

With thumb-grip

40° ↗ 40°	–	–	–	M22-WK3 216870	5 units	M22S-WK3 216871	5 units
60° ↓ 60°	–	–	–	M22-WRK3 216872		M22S-WRK3 216873	
–	–	–	–	M22-WRK3-* 217436		M22S-WRK3-* 217437	

4 positions

Not compatible with configuration adapters

Use mounting adapter M22-A4 → Page 48, Legend plates → Page 32

With rotary head

45°		–		M22-WR4 279419	5 units	M22S-WR4 279430	5 units
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With thumb-grip

45°		–		M22-WRK4 279431	5 units	M22S-WRK4 279432	5 units
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Notes

1) * can be replaced with a 1 or 2:

* = 1: for 60° ↗ 40°

* = 2: for 40° ↗ 60°

Action:	Key withdrawable at position	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
↗ = Momentary (MO)				
↙ = Maintained (MA)				

**Key-operated buttons for individual lock mechanisms, IP66**

Gold-plated bezel → Page 69
Not suitable for master key systems

With 1 key

Maintained/momentary action and key withdraw can be changed with configuration adapters → Page 30

2 positions

MS1 lock mechanism	↗ 40°	—	0 —	M22-WS 216881	1 unit	M22S-WS 216882	1 unit
	↙ 60°	—	0	M22-WRS 216887	5 units	M22S-WRS 216889	5 units
	↙ 60°	—	0	M22-WRS-GVP 216888	25 units		
	↙ 60°	—	0 —	M22-WRS-A1 229092	5 units	M22S-WRS-A1 229093	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	↗ 40°	—	0 —	M22-WS-MS* ¹⁾ 216883	1 unit	M22S-WS-MS* ¹⁾ 216884	1 unit
	↙ 60°	—	0	M22-WRS-MS* ¹⁾ 216890	1 unit	M22S-WRS-MS* ¹⁾ 216891	1 unit
	↙ 50°	—	0 —	M22-WRS-MS*-A1* ¹⁾ 217440	5 units	M22S-WRS-MS*-A1* ¹⁾ 217441	5 units

3 positions

With plunger bridge → Engineering, Page 74

MS1 lock mechanism	40° ↗ 40°	—	0 —	M22-WS3 216894	1 unit	M22S-WS3 216895	1 unit
	60° ↓ 60°		0 II	M22-WRS3 216900	5 units	M22S-WRS3 216901	5 units
	60° ↓ 60°		0 II	M22-WRS3-GVP 216902	25 units		
	↓	Selectable ²⁾	— —	M22-WRS3-A* ^{1 4)} 229094	5 units	M22S-WRS3-A* ^{1 4)} 229095	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable ²⁾	— —	M22-WRS3-MS*-A* ^{1 2)} 217442	5 units	M22S-WRS3-MS*-A* ^{1 2)} 217443	5 units
	40° ↗ 40°	—	0 —	M22-WS3-MS* ¹⁾ 216896	1 unit	M22S-WS3-MS* ¹⁾ 216897	1 unit
	60° ↓ 60°		0 II	M22-WRS3-MS* ¹⁾ 216903	1 unit	M22S-WRS3-MS* ¹⁾ 216904	1 unit

2 or 3 positions

MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable	— —	M22-WRS*-MS*-* ^{1 3)} 262521	1 unit
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Individual keys

Spare key for AUTO - OFF/RESET - MANUAL key-operated switches

For MS1 lock mechanism **M22-ES-MS1** 216416 5 units

For MS2 – MS20 lock mechanism **M22-ES-MS*** 216417 1 unit

Notes

¹⁾ Delivery: 4 weeks after the order is received by the factory

²⁾ Example: M22(S)-WRS3-MS*-A*

MS*: * = MS2 – MS20 (individual lock mechanism number)

A*: * = 1, action: ↗ , withdrawable in switch position 0

* = 2, action: ↗ , withdrawable in contactor state I, 0

* = 3, action: ↗ , withdrawable in contactor state 0, II

* = 4, action: ↗ , withdrawable in switch positions I, 0

* = 5, action: ↗ , withdrawable in switch position 0

* = 6, action: ↗ , withdrawable in switch positions 0, II

* = 7, action: ↗ , withdrawable in switch position 0

* = 10, action: ↗ , withdrawable in switch positions I, II

³⁾ Example: M22(S)-WRS*-MS*-*

WRS*: * = 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)

MS*: * = * = MS2 – MS20 (individual lock mechanism number)

-*: * = Customized inscription with Label Editor; replace * with the automatically assigned filename (→ Engineering, Page 74) or "blank" if no inscription is required

⁴⁾ Version A10 cannot be selected.

Action:	Silver bezel	Black bezel	
	Part no.	Part no.	Std. pack
▷ = Momentary (MO)			
└ = Maintained (MA)			

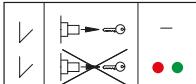
Key-operated buttons for master key systems, IP66

Gold-plated bezel → Page 69

With 2 keys

2 positions	Action	Part no.	5 units	Part no.	5 units
	▷ 40° 0	M22-WS-SA(*)-* 216885		M22S-WS-SA(*)-* 216886	
	└ 60° 0	M22-WRS-SA(*)-* 216892		M22S-WRS-SA(*)-* 216893	
	└ 60° 0	M22-WRS-SA(*)-*-A8 285537		M22S-WRS-SA(*)-*-A8 285538	
3 positions	Action	Part no.		Part no.	
	60° └ 60° 1 0 II	M22-WRS3-SA(*)-*-A9 285539		M22S-WRS3-SA(*)-*-A9 285581	
	40° <▷ 40° 0	M22-WS3-SA(*)-* 216898		M22S-WS3-SA(*)-* 216899	
	60° └ 60° 0	M22-WRS3-SA(*)-* 216905		M22S-WRS3-SA(*)-* 216906	
Individual keys for master key systems	Action	Part no.	10 units		
	0	M22-ES-SA(*)-* 217444			

NotesMaster key systems: Delivery will take 4 to 6 weeks after the order is received at the factory
To order, use form MZ047002ZU (formerly F0276) → Data sheet in online catalog

Action	Part no.	Std. pack
Configuration kit		
Not for key-operated buttons for master key systems		
For converting the key withdraw → Page 74	 	50° M22-XC-R 216406 10 units
For converting between maintained and momentary action → Page 74		40° M22-XC-Y 216407 10 units

Text	Action:	For use with	Silver bezel	Black bezel	Std. pack
			Part no. Article no.	Part no. Article no.	
	↗ = Momentary (M0)				
	↙ = Maintained (MA)				

**Joysticks, IP66**

Gold-plated bezel → Page 69, use M22-A4 adapter
One operating point per operating direction

2 positions	↖	–	M22-WJ2H 289195	1 unit	M22S-WJ2H 289197	1 unit
	↖	–	M22-WJS2H¹⁾ 178570			
	—	–	M22-WRJ2H 289199		M22S-WRJ2H 289241	
	—	–	M22-WRJS2H¹⁾ 178574			
	↓	–	M22-WJ2V 289196		M22S-WJ2V 289198	
	↓	–	M22-WJS2V¹⁾ 178571			
		–	M22-WRJ2V 289240		M22S-WRJ2V 289242	
		–	M22-WRJS2V¹⁾ 178575			
4 positions	+	–	M22-WRJ4 279415	5 units	M22S-WRJ4 279416	5 units
	+	–	M22-WRJS4¹⁾ 178566			
	↖	–	M22-WJ4 279417		M22S-WJ4 279418	
	↖	–	M22-WJS4¹⁾ 178568			

**Joysticks with two operating points per operating direction**

These joysticks are combined with M22-K10 normal N/O and M22-K10P early-make contacts.

2 positions	↖↖	–	M22-WJ2H-2P 111508	1 unit		
	↖↖	–	M22-WJS2H-2P¹⁾ 178565			
	↓↓	–	M22-WJ2V-2P 111507			
	↓↓	–	M22-WJS2V-2P¹⁾ 178564			
	↑↖	–	M22-WJ4-2P 110836			
	↑↖	–	M22-WJS4-2P¹⁾ 178563			
4 positions	↑↖↖	–				
	↑↖↖	–				

Notes

¹⁾ With metal shaft

-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock



-*-*: * = Filename assigned by Label Editor
→ Engineering, Page 74

Text	Action:	For use with	Silver bezel	Black bezel	Std. pack
			Part no. Article no.	Part no. Article no.	
	▷ = Momentary (MO)				
	▽ = Maintained (MA)				

Pushbuttons, IP66, 4-way**Opposing buttons
not mechanically
interlocked**

No inscription, black pushbuttons	↔	–	M22-D4-S 279411	5 units	M22S-D4-S 279412	5 units
Custom inscription and pushbutton color → Notes	↔	–	M22-D4-*-* 279413		M22S-D4-*-* 279414	

**Opposing pushbuttons
mechanically
interlocked**

White arrows, black pushbuttons	↔	–	M22-D4-S-X7 286336		M22S-D4-S-X7 286337	
Customized pushbutton inscription and color, → Notes	↔	–	M22-DI4-*-* 286340		M22S-DI4-*-* 286341	

Notes

① With metal shaft

-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock-*-*: * = Filename assigned by Label Editor
→ Engineering, Page 74

Inscription	For use with	Silver bezel	Black bezel	Std. pack
Legend plates				
No inscription	Joysticks 4-way selector switches	M22-XCK 279433		10 units
4 direction arrows	Joysticks 4-way selector switches	M22-XCK1 279434		
2 direction arrows, can be turned 90°	2-position joysticks	M22-XCK3 290260		
0-1-0-2-0-3-0-4	4-way selector switches	M22-XCK2 279435		
With customized Label Editor inscription → Engineering, Page 74	Joysticks 4-way selector switches	M22-XCK-* 279436		

Notes-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock-*-*: * = File name generated by Label editor
→ Engineering, Page 74

Color	Style	Degree of protection	Part no. Article no.	Std. pack
Indicator lights				
LEDs for indicator lights → Page 51 ff.				
	White	Flush	IP67, IP69K M22-L-W 216771	10 units
	Red	Flush	IP67, IP69K M22-L-R 216772	
	Green	Flush	IP67, IP69K M22-L-G 216773	
	Yellow	Flush	IP67, IP69K M22-L-Y 216774	
	Blue	Flush	IP67, IP69K M22-L-B 216775	
	Orange	Flush	IP67, IP69K M22-L-A 164374	
–	Without lens ¹⁾	Flush	IP67, IP69K M22-L-X 216776	
–	Without lens ¹⁾	Flush	IP67, IP69K M22-L-X-GVP 216777	50 units
	White	Extended, conical	IP67, IP69K M22-LH-W 216778	10 units
	Red	Extended, conical	IP67, IP69K M22-LH-R 216779	
	Green	Extended, conical	IP67, IP69K M22-LH-G 216780	
	Yellow	Extended, conical	IP67, IP69K M22-LH-Y 216781	
	Blue	Extended, conical	IP67, IP69K M22-LH-B 216782	
	Orange	Extended, conical	IP67, IP69K M22-LH-A 164375	
Conical BA 9s indicator lights				
Can be installed in M20/M25 knockout in base For incandescent and neon lamps of up to 2.4 W				
	Red	Conical	IP67, IP69K L-R 208689	1 unit
	Green	Conical	IP67, IP69K L-G 208690	
	Yellow	Conical	IP67, IP69K L-Y 208691	
	White	Conical	IP67, IP69K L-W 208692	
Compact indicator lights				
Without lamp For incandescent lamps, neon lamps, and LEDs of up to 2.4 W With BA 9s lamp socket				
	White	Flush	IP67, IP69K M22-LC-W 216907	10 units
	Red	Flush	IP67, IP69K M22-LC-R 216908	
	Green	Flush	IP67, IP69K M22-LC-G 216909	
	Yellow	Flush	IP67, IP69K M22-LC-Y 216910	
	Blue	Flush	IP67, IP69K M22-LC-B 216911	
–	Without lens ¹⁾	Flush	IP67, IP69K M22-LC-X 216912	
	White	Extended, conical	IP67, IP69K M22-LCH-W 216914	
	Red	Extended, conical	IP67, IP69K M22-LCH-R 216915	
	Green	Extended, conical	IP67, IP69K M22-LCH-G 216916	
	Yellow	Extended, conical	IP67, IP69K M22-LCH-Y 216917	
	Blue	Extended, conical	IP67, IP69K M22-LCH-B 216918	

Notes¹⁾ Lenses for indicator lights → Page 62

Contact sequence	Resistance R kΩ	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
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**Potentiometers, IP66**

Gold-plated bezel → Page 69
3 separate screw connections, $P_{max} = 0.5$ W
Accuracy of resistance value: $\pm 10\%$ (linear)
M22...RH with large knob

	1	M22-R1K 229489	1 unit	M22S-R1K 232231	1 unit
	2.2	M22-R2K2 171157			
	4.7	M22-R4K7 229490		M22S-R4K7 232232	
	10	M22-R10K 229491		M22S-R10K 232233	
	47	M22-R47K 229492		M22S-R47K 232234	
	100	M22-R100K 229493		M22S-R100K 232235	
	470	M22-R470K 229494		M22S-R470K 232236	
	Selectable → Notes ¹⁾	M22-R*-* 263371		M22S-R*-* 263372	
	Selectable → Notes ¹⁾	M22-R*-*-RH 288863			

Notes

¹⁾ The following information must be added to the part no. when ordering:

1st asterisk △ Resistance

2nd asterisk △ Standard scale/inscription

* - *; * = Available resistance values:

1K = 1 kΩ

2K2 = 2.2 kΩ

4K7 = 4.7 kΩ

10K = 10 kΩ

22K = 22 kΩ

47K = 47 kΩ

100K = 100 kΩ

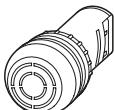
470K = 470 kΩ

1M = 1 MΩ

* - *; * = Standard scale/inscription: X1000

No scale/inscription: "blank"

	Part no. Article no.	Std. pack
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**Compact acoustic device, IP40**

Black front, without buzzer, with BA 9s lamp socket **M22-AMC**
229015 1 unit

**Buzzer for acoustic device**

For BA 9s socket
83 dB/10 cm,
18 - 30 mA,
Positive pin at X1,
 $f = 2300$ Hz

Continuous tone, 18 - 30 V DC	M22-XAM 229025	1 unit
Pulse tone, 24 V DC (+10%/-15%)	M22-XAMP 229028	1 unit

Color	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack	Notes
Illuminated pushbutton actuators, IP67, IP69K				

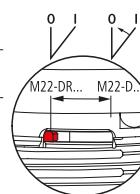
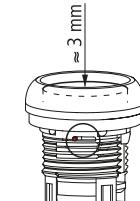
Gold-plated bezel → Page 69

Flush Momentary

○	M22-DL-W 216922	M22S-DL-W 216924	10 units	–
●	M22-DL-R 216925	M22S-DL-R 216926		
●	M22-DL-G 216927	M22S-DL-G 216928		
●	M22-DL-Y 216929	M22S-DL-Y 216930		
●	M22-DL-B 216931	M22S-DL-B 216932		
●	M22-DL-A 167429	M22S-DL-A 167430		
–	M22-DL-X 216933	M22S-DL-X 216935		
–	M22-DL-X-GVP 216934		50 units	
●	M22-DL-R-X0 216936	M22S-DL-R-X0 216937	10 units	
●	M22-DL-G-X1 216938	M22S-DL-G-X1 216939		
○	M22-DL-W-X0 216940	M22S-DL-W-X0 216941		
●	M22-DL-W-X1 216942	M22S-DL-W-X1 216943		

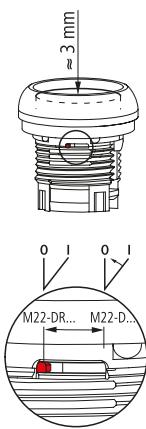
Flush Maintained

○	M22-DRL-W 216944	M22S-DRL-W 216945	5 units	Programmable maintained/ momentary pushbutton action
●	M22-DRL-R 216946	M22S-DRL-R 216947		
●	M22-DRL-G 216948	M22S-DRL-G 216949		
●	M22-DRL-Y 216950	M22S-DRL-Y 216951		
●	M22-DRL-B 216952	M22S-DRL-B 216953		
●	M22-DRL-A 167431			
–	M22-DRL-X 216954	M22S-DRL-X 216956		
–	M22-DRL-X-GVP 216955		50 units	
●	M22-DRL-R-X0 216957	M22S-DRL-R-X0 216958	5 units	
●	M22-DRL-G-X1 216959	M22S-DRL-G-X1 216960		
○	M22-DRL-W-X0 216961	M22S-DRL-W-X0 216962		
●	M22-DRL-W-X1 216963	M22S-DRL-W-X1 216964		

**Extended Momentary**

○	M22-DLH-W 216965	M22S-DLH-W 216966	5 units	
●	M22-DLH-R 216967	M22S-DLH-R 216968		
●	M22-DLH-G 216969	M22S-DLH-G 216970		
●	M22-DLH-Y 216971	M22S-DLH-Y 216972		
●	M22-DLH-B 216973	M22S-DLH-B 216974		
●	M22-DLH-A 167433	M22S-DLH-A 167434		
●	M22-DLH-R-X0 216975	M22S-DLH-R-X0 216976		
●	M22-DLH-G-X1 216977	M22S-DLH-G-X1 216978		
○	M22-DLH-W-X0 216979	M22S-DLH-W-X0 216980		
●	M22-DLH-W-X1 216981	M22S-DLH-W-X1 216982		

	Silver bezel Color Button plate	Black bezel Part no. Article no.	Std. pack	Notes
Illuminated pushbutton actuators, IP67, IP69K				
Gold-plated bezel → Page 69				
Extended Maintained				
	(○) M22-DRLH-W 216788	(●) M22S-DRLH-W 216791	5 units	Programmable maintained/momentary pushbutton action
	(●) M22-DRLH-R 216789	(●) M22S-DRLH-R 216792		
	(●) M22-DRLH-G 216796	(●) M22S-DRLH-G 216798		
	(●) M22-DRLH-Y 216799	(●) M22S-DRLH-Y 216801		
	(●) M22-DRLH-B 216802	(●) M22S-DRLH-B 216803		
	(●) M22-DRLH-A 167435			
	(●) M22-DRLH-R-X0 216804	(●) M22S-DRLH-R-X0 216808		
	(●) M22-DRLH-G-X1 216805	(●) M22S-DRLH-G-X1 216809		
	(●) M22-DRLH-W-X0 216806	(●) M22S-DRLH-W-X0 216810		
	(●) M22-DRLH-W-X1 216807	(●) M22S-DRLH-W-X1 216811		
With guard ring Momentary	— M22-DGL-X 230961		5 units	



With guard ring
Momentary



Action:	Color	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
▷ = Momentary (M0)				
└ = Maintained (MA)				

Illuminated selector switches, thumb-grip, IP66

Gold-plated bezel → Page 69

Maintained/momentary action can be changed with M22-XC-Y → Engineering, Page 74

2 positions

	▷ 40°	○ White	M22-WLK-W 216812	M22S-WLK-W 216813	5 units
	▷ 40°	● Red	M22-WLK-R 216814	M22S-WLK-R 216815	
	▷ 40°	● Green	M22-WLK-G 216816	M22S-WLK-G 216817	
	▷ 40°	● Yellow	M22-WLK-Y 216818	M22S-WLK-Y 216819	
	▷ 40°	● Blue	M22-WLK-B 216820	M22S-WLK-B 216821	
	└ 60°	○ White	M22-WRLK-W 216823	M22S-WRLK-W 216824	5 units
	└ 60°	● Red	M22-WRLK-R 216825	M22S-WRLK-R 216826	
	└ 60°	● Green	M22-WRLK-G 216827	M22S-WRLK-G 216828	
	└ 60°	● Yellow	M22-WRLK-Y 216829	M22S-WRLK-Y 216830	
	└ 60°	● Blue	M22-WRLK-B 216831	M22S-WRLK-B 216832	

3 positions

	40° < > 40°	○ White	M22-WLK3-W 216833	M22S-WLK3-W 216834	5 units
	40° < > 40°	● Red	M22-WLK3-R 216835	M22S-WLK3-R 216836	
	40° < > 40°	● Green	M22-WLK3-G 216837	M22S-WLK3-G 216838	
	40° < > 40°	● Yellow	M22-WLK3-Y 216839	M22S-WLK3-Y 216840	
	40° < > 40°	● Blue	M22-WLK3-B 216841	M22S-WLK3-B 216842	
	60° ↓ 60°	○ White	M22-WRLK3-W 216843	M22S-WRLK3-W 216844	5 units
	60° ↓ 60°	● Red	M22-WRLK3-R 216845	M22S-WRLK3-R 216846	
	60° ↓ 60°	● Green	M22-WRLK3-G 216847	M22S-WRLK3-G 216848	
	60° ↓ 60°	● Yellow	M22-WRLK3-Y 216849	M22S-WRLK3-Y 216850	
	60° ↓ 60°	● Blue	M22-WRLK3-B 216851	M22S-WRLK3-B 216852	
Selectable	Selectable → Notes		M22-WRLK3-*/* 217438	M22S-WRLK3-*/* 217439	

V configuration

	▽ 60°	○ White	M22-WLKV-W 284393	M22S-WLKV-W 284398	5 units
	▽ 60°	● Red	M22-WLKV-R 284394	M22S-WLKV-R 284399	
	▽ 60°	● Green	M22-WLKV-G 284395	M22S-WLKV-G 284540	
	▽ 60°	● Yellow	M22-WLKV-Y 284396	M22S-WLKV-Y 284543	
	▽ 60°	● Blue	M22-WLKV-B 284397	M22S-WLKV-B 284544	

Notes

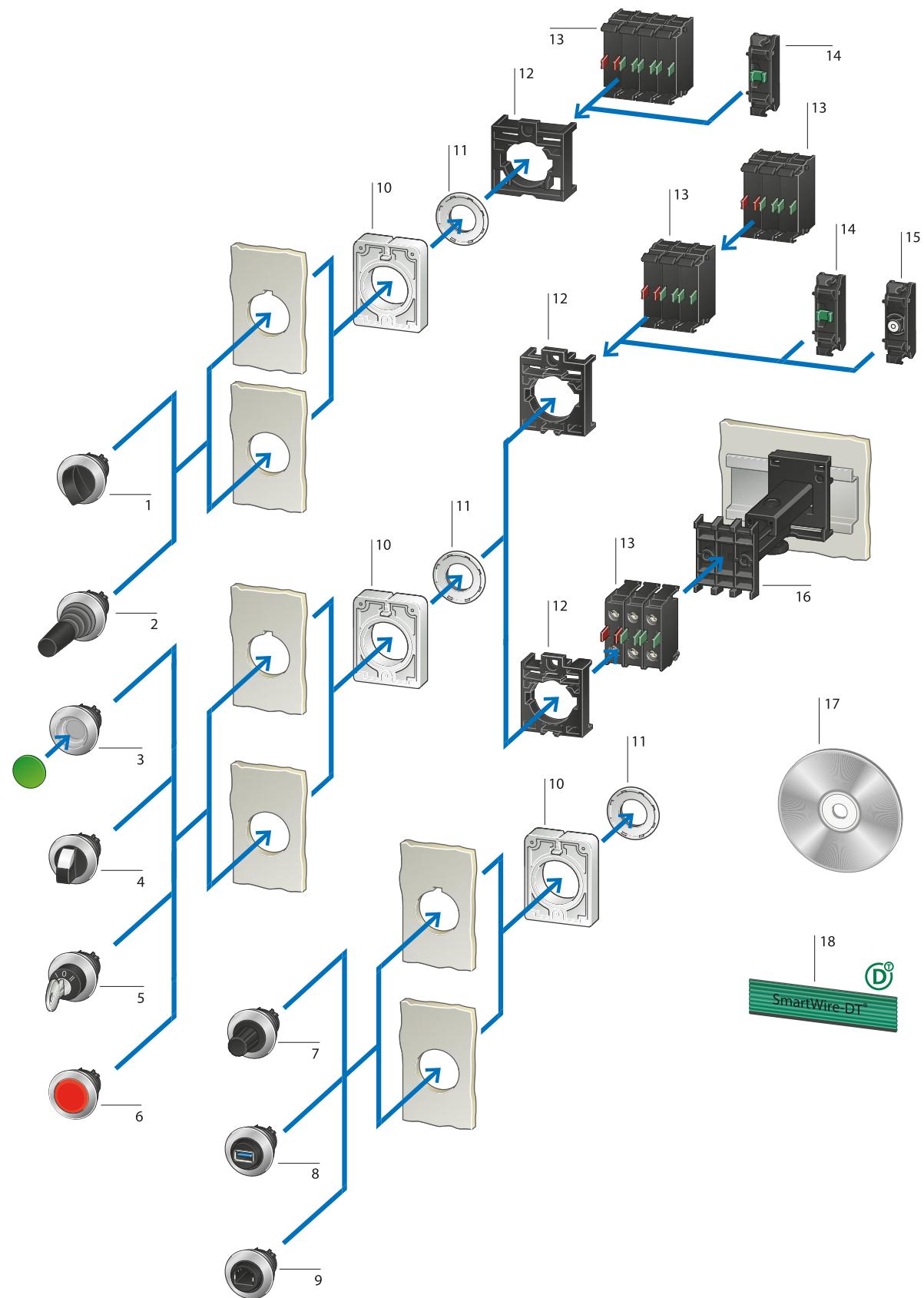
Example: M22-WRLK3-*/*

/: * = 1 for ▷ or 2 for <||>

/: * = Color

1

System overview



M30 4-way selector switches	1
4 positions	
With rotary head or thumb-grip	
0-1-0-2-0-3-0-4 maintained action	
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M30 joysticks	2
2 or 4 positions	
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M30 pushbuttons	3
Momentary and maintained	
Flush	
Colors: white, green, red, yellow, blue, black	
Illuminated pushbutton actuators	
Colors: white, green, red, yellow, blue, orange	
→ Page 40	
M30 selector switches	4
2 and 3 positions	
With rotary head, thumb-grip	
Programmable maintained/ momentary action	
Illuminated selector switches with transparent thumb-grip	
Colors: white, green, red, yellow, blue	
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M30 key-operated buttons	5
For individual lock mechanisms	
2 or 3 positions	
Programmable momentary/ maintained action and key withdraw	
Suitable for master key systems	
→ Page 42	
M30 indicator lights	6
Colors: white, green, red, yellow, blue, orange	
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Resistances of 1 kΩ - 1 MΩ	
3 individual connections	
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M30 panel mount connectors	8
USB 3.0	
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Anti-rotation tab	
Included with the equipment supplied with M30 front elements	
Threaded rings	11
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For flush mounting	
For contact and LED elements	
→ Page 48	
Contact elements	13
N/C and N/O	
Universal contacts suitable for use with electronic devices	
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	
Max. 2 levels, each with 3 contact elements	
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Flat Rear contact elements	14
Cage Clamp with push-in terminals	
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Flat Rear LED elements	15
Cage Clamp with push-in terminals	
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Telescopic clip	16
For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets	
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Convenient labeling	17
A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.	
Download: www.eaton.eu/config/rmq	
Keyword: "Pushbutton Configurator"	
→ Label Editor function"	
SmartWire-DT	18
Product characteristics	
<ul style="list-style-type: none"> • Clip-fit assembly modular system • Metal bezel, flush • Mounting hole diameter: 30.5 mm • Minimum grid dimension: 40 x 50 mm • Min. degree of protection: IP66 • Up to 6 contacts per mounting location • For switching differing potentials • Approved throughout the world 	

Product selection

	Button plate	Part no. Article no.	Std. pack
Pushbuttons			
Momentary	IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
	M30C-FD-S 182959	1 unit	
	M30C-FD-W 182960		
	M30C-FD-R 182918		
	M30C-FD-G 182919		
	M30C-FD-Y 182920		
	M30C-FD-B 182921		
	M30C-FD-GR 182923		
	M30C-FD-S-X0 182961		
	M30C-FD-W-X1 182962		
	M30C-FD-W-X11 182963		
	M30C-FD-R-X0 182939		
	M30C-FD-G-X1 182956		
	M30C-FD-B-X217 182967		
	M30C-FD-GR-X66 182964		
Momentary	Without button plate	M30C-FD-X 182922	1 unit
Maintained ¹⁾			
	M30C-FDR-S 182942	1 unit	
	M30C-FDR-W 182943		
	M30C-FDR-R 182944		
	M30C-FDR-G 182945		
	M30C-FDR-Y 182946		
	M30C-FDR-B 182947		
	M30C-FDR-S-X0 182937		
	M30C-FDR-W-X1 182938		
	M30C-FDR-R-X0 182936		
	M30C-FDR-G-X1 182931		
Maintained ¹⁾	Without button plate	M30C-FDR-X 182948	1 unit

Notes

¹⁾ Maintained/momentary action can be changed on device

Action:	Button plate	Part no. Article no.	Std. pack	Ordering notes
\nearrow = Momentary (MO)				
\swarrow = Maintained (MA)				

Selector switches

IP66

Metal bezel

Front dimensions: 36 mm diameter

Maintained/momentary action can be changed with M22-XC-Y configuration adapters

2 positions**With rotary head**

\nearrow 40°		M30C-FW 187087	1 unit
\swarrow 60°		M30C-FWR 187088	
\swarrow 60°	AUTO HAND	M30C-FWR-X91 187113	
\swarrow 60°		M30C-FWR-X92 187114	
\swarrow 60°	Customized inscription available	M30C-FWR-* 187105	* = With customized Label Editor inscription → Page 74

With thumb-grip

\nearrow 40°	M30C-FWK 187103	1 unit
\swarrow 60°	M30C-FWRK 187109	

With thumb-grip

\swarrow 60°	M30C-FWKV 187102	1 unit
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3 positions¹⁾**With rotary head**

40° \swarrow 40°		M30C-FW3 187089	1 unit
60° \downarrow 60°		M30C-FWR3 187090	
60° \downarrow 60°		M30C-FWR3-X7 187107	
60° \downarrow 60°		M30C-FWR3-X94 187108	
60° \downarrow 60°	Customized inscription available	M30C-FWR3-* 187106	* = With customized Label Editor inscription → Page 74

With thumb-grip

40° \swarrow 40°	M30C-FWK3 187104	1 unit
60° \downarrow 60°	M30C-FWRK3 187110	
Selectable	M30C-FWRK3-* 187111	* = MAMO (for 60° \downarrow 60°) or MOMA (for 40° \swarrow 60°)

4 positions^{2), 3)}**With rotary head**

	M30C-FWR4 187091	1 unit
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With thumb-grip

	M30C-FWRK4 187112	1 unit
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Notes¹⁾ With plunger bridge for middle contact²⁾ Not compatible with configuration adapters³⁾ Use M22-A4 mounting adapter → Page 69

Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no. Article no.	Std. pack
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↗ = Momentary (MO)

↙ = Maintained (MA)

Key-operated buttons for individual lock mechanisms

IP66

Metal bezel

Front dimensions: 36 mm diameter

Maintained/momentary action can be changed with M22-XC-Y configuration adapters

Key withdraw can be changed with M22-XC-... configuration adapters

2 positions

↗ 40°	0	-	-	With 1 key	M30C-FWS 187068	1 unit
↙ 60°	0	-	I		M30C-FWRS 187092	
↙ 60°	0	-	-		M30C-FWRS-A1 187047	
↙ 60°	I	-	II		M30C-FWRS-X95 187067	
↗ 40° Selectable	0	-	-		M30C-FWS-MS* 187072	
↙ 60° Selectable	0	-	I		M30C-FWRS-MS* 187048	
↗ 40° MS2	0	-	-		M30C-FWS-MS2 187073	
↗ 40° MS3	0	-	-		M30C-FWS-MS3 187074	
↙ 60° MS3	0	-	I		M30C-FWRS-MS3 187053	
↙ 60° MS4	0	-	I		M30C-FWRS-MS4 187055	
↙ 60° MS5	0	-	I		M30C-FWRS-MS5 187057	
↗ 40° MS5	0	-	-		M30C-FWS-MS5 187075	
↙ 60° MS6	0	-	I		M30C-FWRS-MS6 187059	
↙ 60° MS7	0	-	I		M30C-FWRS-MS7 187060	
↙ 60° MS8	0	-	I		M30C-FWRS-MS8 187061	
↙ 60° MS10	0	-	I		M30C-FWRS-MS10 187051	
↙ 60° Selectable	0	-	-		M30C-FWRS-MS*-A1 187049	
↙ 60° MS3	0	-	-		M30C-FWRS-MS3-A1 187054	
↙ 60° MS4	0	-	-		M30C-FWRS-MS4-A1 187056	
↙ 60° MS5	0	-	-		M30C-FWRS-MS5-A1 187058	
↙ 60° MS10	0	-	-		M30C-FWRS-MS10-A1 187052	
↙ 60° Selectable	-	-	I		M30C-FWRS-MS*-A21-* 187050	
↙ 60° Ronis 455	0	-	I	With 2 keys	M30C-FWRS-RS 187062	1 unit
↙ 60° Ronis 455	0	-	-		M30C-FWRS-RS-A1 187063	



Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no.	Std. pack
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= Momentary (MO)

= Maintained (MA)

Key-operated buttons for individual lock mechanisms**3 positions**

	40° 40°	0 - -	With 1 key	M30C-FWS3 187069	1 unit
	40° 40° Selectable	0 - -		M30C-FWS3-MS* 187070	
	60° 60°	0 I II		M30C-FWRS3 187094	
	60° 60° Selectable	- Selectable -		M30C-FWRS3-MS*-A* 187096	
	60° 60°	- Selectable -		M30C-FWRS3-A* 187095	
	60° 60° MS3	0 - II		M30C-FWRS3-MS3 187097	
	60° 60° Ronis 455	0 I II	With 2 keys	M30C-FWRS3-RS 187098	1 unit
	60° 60° Ronis 455	0 - -		M30C-FWRS3-RS-A1 187099	

2 or 3 positions

	Selectable	- - -	With 1 key	M30C-FWRS*-MS*-A* 187093	1 unit
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Key-operated buttons for master key systems

Metal bezel

IP66

Front dimensions: 36 mm diameter

To order, use form MZ047002ZU (formerly F0276)

→ Data sheet in online catalog

Delivery will take 4 to 6 weeks after the order is received at the factory

	2 positions			
	▷ 40°	0 - -	With 2 keys	M30C-FWS-SA(*)-A* 187076
	▽ 60°	0 - -		M30C-FWRS-SA(*)-A* 187064
	▽ 60°	0 - I		M30C-FWRS-SA(*)-A8 187066

	3 positions			
	40° 40°	0 - -	With 2 keys	M30C-FWS3-SA(*)-A* 187071
	60° 60°	0 - -		M30C-FWRS3-SA(*)-A* 187100
	60° 60°	0 I II		M30C-FWRS3-SA(*)-A9 187101

Notes

MS*: * = MS2, ..., MS20; (enter lock mechanism number in the part no.)

A*: * = 1, action: , withdrawable in position 0

* = 2, action: , withdrawable in positions I, 0

* = 3, action: , withdrawable in positions 0, II

* = 4, action: , withdrawable in positions I, 0

* = 5, action: , withdrawable in position 0

* = 6, action: , withdrawable in positions 0, II

* = 7, action: , withdrawable in position 0

* = 10, action: , withdrawable in positions I, II (not for item M30C-FWRS3-A*)

-*: * = Customized inscription with Label Editor; replace * with the automatically assigned filename (→ Page 74) or "blank" if no inscription is required

WRS*: 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)

**Joysticks**

With one operating point per operating direction
With metal shaft
IP66
Metal bezel
Front dimensions: 36 mm diameter

Action:	Part no.	Std. pack
↗ = Momentary (MO)		
↙ = Maintained (MA)		
2 positions	M30C-FWRJS2H 187078	1 unit
2 positions	M30C-FWRJS2V 187065	
4 positions	M30C-FWJS4 187077	

**Indicator lights**

IP67, IP69K
Metal bezel
Front dimensions: 36 mm diameter

Lens	Part no.	1 unit
○	M30C-FL-W 183287	
●	M30C-FL-R 183282	
●	M30C-FL-G 183283	
●	M30C-FL-Y 183285	
●	M30C-FL-B 183284	
●	M30C-FL-A 183286	
○	M30C-FL-W-* 183293	
●	M30C-FL-R-* 183288	
●	M30C-FL-G-* 183289	
●	M30C-FL-Y-* 183291	
●	M30C-FL-B-* 183290	
●	M30C-FL-A-* 183292	

* = With customized Label Editor inscription → Page 74

	Button plate	Part no. Article no.	Std. pack
Illuminated pushbutton actuators			
Momentary	IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
		M30C-FDL-W 182925	1 unit
		M30C-FDL-R 182926	
		M30C-FDL-G 182927	
		M30C-FDL-Y 182928	
		M30C-FDL-B 182940	
		M30C-FDL-A 182924	
		M30C-FDL-W-X0 182929	
		M30C-FDL-W-X1 182930	
		M30C-FDL-W-X100 182966	
		M30C-FDL-R-X0 182958	
		M30C-FDL-G-X1 182957	
		M30C-FDL-G-X32 182968	
		M30C-FDL-Y-X162 182965	
Momentary	Without button plate	M30C-FDL-X 182941	1 unit
Maintained ¹⁾			
		M30C-FDRL-W 182950	1 unit
		M30C-FDRL-R 182951	
		M30C-FDRL-G 182952	
		M30C-FDRL-Y 182953	
		M30C-FDRL-B 182954	
		M30C-FDRL-A 182949	
		M30C-FDRL-W-X0 182934	
		M30C-FDRL-W-X1 182935	
		M30C-FDRL-R-X0 182933	
		M30C-FDRL-G-X1 182932	
Maintained ¹⁾	Without button plate	M30C-FDRL-X 182955	1 unit
Notes		¹⁾ Maintained/momentary action can be changed on device	

Action:	Thumb-grip	Part no.	Std. pack
↗ = Momentary (MO)			
↙ = Maintained (MA)			

Illuminated selector switches

IP66
With thumb-grip
Metal bezel
Front dimensions: 36 mm diameter
Maintained/momentary action can be changed with M22-XC-Y configuration adapters

2 positions

↗ 40°	○	M30C-FWLK-W 187128	1 unit
↙ 60°	○	M30C-FWRLK-W 187026	
↗ 40°	●	M30C-FWLK-R 187122	
↙ 60°	●	M30C-FWRLK-R 187025	
↗ 40°	●	M30C-FWLK-G 187121	
↙ 60°	●	M30C-FWRLK-G 187024	
↗ 40°	●	M30C-FWLK-Y 187129	
↙ 60°	●	M30C-FWRLK-Y 187027	
↗ 40°	●	M30C-FWLK-B 187120	
↙ 60°	●	M30C-FWRLK-B 187023	

**2 positions (V configuration)**

↙ 60°	○	M30C-FWLKV-W 187126	1 unit
↙ 60°	●	M30C-FWLKV-R 187125	
↙ 60°	●	M30C-FWLKV-G 187124	
↙ 60°	●	M30C-FWLKV-Y 187127	
↙ 60°	●	M30C-FWLKV-B 187123	

**3 positions**

40° ↗ 40°	○	M30C-FWLK3-W 187118	1 unit
60° ↓ 60°	○	M30C-FWRLK3-W 187134	
40° ↗ 40°	●	M30C-FWLK3-R 187117	
60° ↓ 60°	●	M30C-FWRLK3-R 187133	
40° ↗ 40°	●	M30C-FWLK3-G 187116	
60° ↓ 60°	●	M30C-FWRLK3-G 187132	
40° ↗ 40°	●	M30C-FWLK3-Y 187119	
60° ↓ 60°	●	M30C-FWRLK3-Y 187022	
40° ↗ 40°	●	M30C-FWLK3-B 187115	
60° ↓ 60°	●	M30C-FWRLK3-B 187131	
Selectable	Selectable	M30C-FWRLK3-*/*1 187130	

Notes

¹⁾ *: * = MAMO (for 60° ↗ 40°) or MOMA (for 40° ↗ 60°)

/*: * = B (blue), G (green), R (red), B (black), W (white), Y (yellow)

Resistance	Scale/incription	Contact sequence	Part no. Article no.	Std. pack
R				
kΩ				

**Potentiometers, IP65**

3 individual screw connections
Resistance accuracy: ±10% (linear)
Metal bezel
Rated power P = 0.5 W

1	Standard scale/incription		M30C-FR1K 187029	1 unit
4.7			M30C-FR4K7 187030	
10			M30C-FR10K 187035	
47			M30C-FR47K 187031	
100			M30C-FR100K 187032	
470			M30C-FR470K 187033	
2.2			M30C-FR2K2 187034	
22			M30C-FR22K 187036	
1000			M30C-FR1M 187037	
1	Without scale/incription		M30C-FR1K-BLANK 187038	
2.2			M30C-FR2K2-BLANK 187039	
4.7			M30C-FR4K7-BLANK 187040	
10			M30C-FR10K-BLANK 187041	
22			M30C-FR22K-BLANK 187042	
47			M30C-FR47K-BLANK 187043	
100			M30C-FR100K-BLANK 187044	
470			M30C-FR470K-BLANK 187045	
1000			M30C-FR1M-BLANK 187046	
Selectable ¹⁾	Selectable ²⁾		M30C-FR*-* 187081	

SmartWire-DT potentiometers, IP65

Only in conjunction with M22-SWD-R function element



–	Silver bezel M22		M22-R-SWD 179292	1 unit
–	Metal bezel Flat Front		M30C-FR-SWD 187080	1 unit

**SmartWire-DT encoders, IP65**

With actuation function

Only in conjunction with M22-SWD-INC function element



–	Silver bezel M22	–	M22-INC-SWD 179981	1 unit
–	Metal bezel Flat Front	–	M30C-FINC-SWD 187079	1 unit

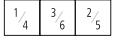
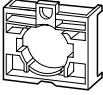
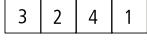
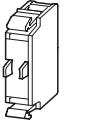
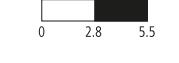
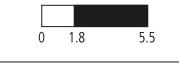
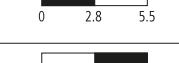
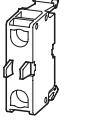
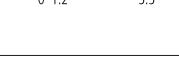
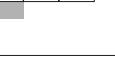
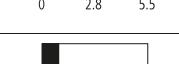
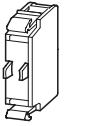
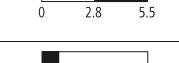
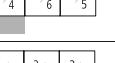
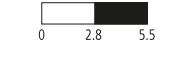
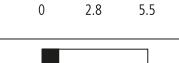
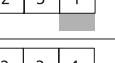
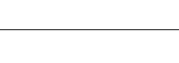
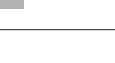
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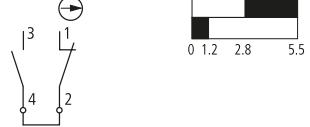
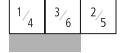
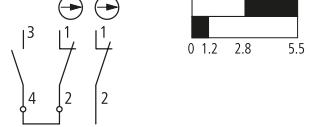
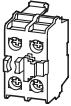
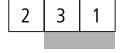
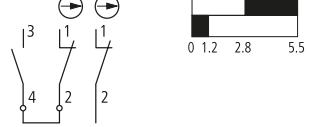
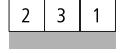
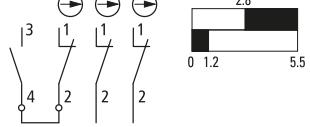
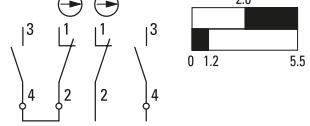
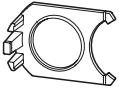
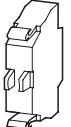
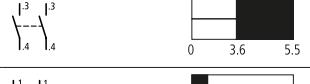
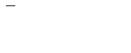
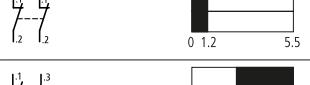
¹⁾ Wildcard: Available resistance values:

1K = 1 kΩ, 2K2 = 2.2 kΩ, 4K7 = 4.7 kΩ, 10K = 10 kΩ,

22K = 22 kΩ, 47K = 47 kΩ, 100K = 100 kΩ, 470K = 470 kΩ, 1M = 1 MΩ

²⁾ Wildcard: Standard scale/incription: X1000 Without scale/incription: "–"

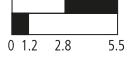
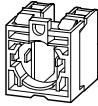
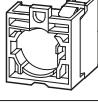
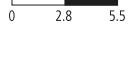
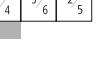
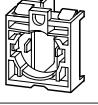
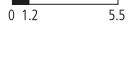
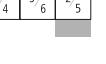
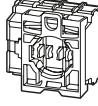
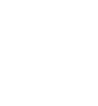
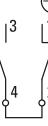
		Configuration	Part no. Article no.	Std. pack
Mounting adapters				
	Mounting adapter (front mounting) for 3 contact/LED elements For M22-(C)K... contact elements and M22-(C)LED... LED elements. Sequence numbers on mounting adapter	 1/4 3/6 2/5	M22-A 216374	50 units
			M22-A-GVP 216375	500 units
	Mounting adapter (front mounting) for 4 contact elements, can be used with M22-WR4, M22-D4, M22-WJ..., M22-WRJ... For M22-(C)K contact elements	 3 2 4 1	M22-A4 279437	10 units
Contact elements				
Front mounting 	Terminal type	Contact configuration: ⊕ = Safety function implemented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element
	Screw terminals	1 N/O	 1/3 1 N/O	 0 2.8 5.5  1/4 3/6 2/5
		1 N/O	 1/7 1 N/O	 0 1.8 5.5
		1 N/C ⊕	 1/1 1 N/C ⊕	 0 1.2 5.5  1/4 3/6 2/5
		1 N/C ⊕	 1/5 1 N/C ⊕	 0 2.8 5.5
		1 N/O	 1/3 1 N/O	 0 2.8 5.5  2 3 1
Base mounting 	Screw terminals	1 N/O	 1/3 1 N/O	 0 2.8 5.5  2 3 1
		1 N/C ⊕	 1/1 1 N/C ⊕	 0 1.2 5.5  2 3 1
		1 N/C ⊕	 1/5 1 N/C ⊕	 0 2.8 5.5
		1 N/O	 1/3 1 N/O	 0 2.8 5.5  1/4 3/6 2/5
Front mounting 	Spring-clamp terminals	1 N/O	 1/3 1 N/O	 0 2.8 5.5  1/4 3/6 2/5
		1 N/C ⊕	 1/1 1 N/C ⊕	 0 1.2 5.5  1/4 3/6 2/5
		1 N/C ⊕	 1/5 1 N/C ⊕	 0 2.8 5.5
Base mounting 	Spring-clamp terminals	1 N/O	 1/3 1 N/O	 0 2.8 5.5  2 3 1
		1 N/C ⊕	 1/1 1 N/C ⊕	 0 1.2 5.5  2 3 1

Terminal type	Contact configuration: ⊕ = Safety function implimented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, Configuration stroke in connection with front element	Part no. Article no.	Std. pack				
Self-monitoring contact elements									
Front mounting 	1 N/O 1 N/C ⊕		 0 1.2 2.8 5.5	M22-K01SMC10 121472	1 unit				
	1 N/O 2 N/C ⊕		 0 1.2 2.8 5.5	M22-K02SMC10 121474					
Base mounting 	1 N/O 1 N/C ⊕		 0 1.2 2.8 5.5	M22-KC01SMC10 121473	1 unit				
	1 N/O 2 N/C ⊕		 0 1.2 2.8 5.5	M22-KC02SMC10 121720					
	1 N/O 3 N/C ⊕		 0 1.2 2.8 5.5	M22-KC03SMC10¹⁾ 173028					
	2 N/O 2 N/C ⊕		 0 1.2 2.8 5.5	M22-KC12SMC10¹⁾ 173029					
Signal contact actuator for SMC									
	For actuating the N/O contact in self-monitoring M22...03(12)SMC10 contact elements Required for two-channel version with additional signaling (auxiliary) contact				M22-XSMC 173030				
10 units									
Double-contact elements									
Front mounting. 	When using M22-PV... emergency stop buttons, max. 2 contact elements = 4 N/C / N/O	Cage Clamp 2 N/O			 0 3.6 5.5				
		2 N/C			 0 1.2 5.5				
		1 N/O 1 N/C ⊕			 0 1.2 3.6 5.5				

Notes¹⁾ The N/O is actuated when mounted with M22-XSMC.

Configuration of mounting adapter with sequence numbers as defined in EN 50013

x = Sequence number on mounting adapter
y = Function number on contact element

Terminal type	Contact configuration: ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack
Complete modules						
Combination of contact element with screw terminals and mounting adapter, front mounting						
Screw terminals	1 N/O 1 N/C ⊕				M22-AK11 216505	5 units
						
	1 N/O				M22-AK10 216504	
	1 N/C ⊕				M22-AK01 216503	
Combination of contact element and self-monitoring contact element M22-K01SMC10 with screw terminals, M22-A mounting adapter, and M22-XSMC signal contact actuator. The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.						
	1 N/O 3 N/C ⊕			-	M22-AK03SMC10 173026	1 unit
	2 N/O 2 N/C ⊕			-	M22-AK12SMC10 173027	1 unit

Notes Configuration of mounting adapter with sequence numbers as defined in EN 50013



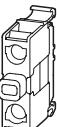
x = Sequence number on mounting adapter
y = Function number on contact element

Rated operating voltage U _e V	Rated operational current I _e mA	Power consumption P W	Color	Part no. Article no.	Std. pack
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LED elements with screw terminals

→ Page 75



Front mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	(○)	M22-LED-W 216557	20 units
				(●)	M22-LED-R 216558	
				(●)	M22-LED-G 216559	
				(●)	M22-LED-B 218057	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	(○)	M22-LED230-W 216563	20 units
				(●)	M22-LED230-R 216564	
				(●)	M22-LED230-G 216565	
				(●)	M22-LED230-B 218059	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	(○)	M22-LED230TA-W¹⁾ 182905	20 units
				(●)	M22-LED230TA-R¹⁾ 182906	
				(●)	M22-LED230TA-G¹⁾ 182907	
				(●)	M22-LED230TA-B¹⁾ 182908	
	207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	-	M22-LED230H-*²⁾ 106521	20 units
Base mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	(○)	M22-LEDC-W 216560	20 units
				(●)	M22-LEDC-R 216561	
				(●)	M22-LEDC-G 216562	
				(●)	M22-LEDC-B 218058	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	(○)	M22-LEDC230-W 216566	20 units
				(●)	M22-LEDC230-R 216567	
				(●)	M22-LEDC230-G 216568	
				(●)	M22-LEDC230-B 218060	
	207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	-	M22-LEDC230H-*²⁾ 106522	20 units

Notes¹⁾ With interference signal protection²⁾ Replace * with color:

W = White, R = Red, G = Green, B = Blue

For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches, the following applies:

M22...R only in combination with M22-LED...R

M22...G only in combination with M22-LED...G

M22...W only in combination with M22-LED...W

M22...Y only in combination with M22-LED...W

M22...B in combination with M22-LED...W or M22-LED...B

Rated operating voltage U _e V	Rated operational current I _e mA	Power consumption P W	Color	Part no. Article no.	Std. pack
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LED elements with Cage Clamp

→ Page 75

Cage Clamp is a registered trademark
of Wago Kontakttechnik GmbH, Minden, Germany

Front mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	(white)	M22-CLED-W 216569	20 units
				(red)	M22-CLED-R 216570	
				(green)	M22-CLED-G 216571	
				(blue)	M22-CLED-B 218061	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	(white)	M22-CLED230-W 216575	20 units
				(red)	M22-CLED230-R 216576	
				(green)	M22-CLED230-G 216577	
				(blue)	M22-CLED230-B 218063	
Base mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	(white)	M22-CLEDC-W 216572	20 units
				(red)	M22-CLEDC-R 216573	
				(green)	M22-CLEDC-G 216574	
				(blue)	M22-CLEDC-B 218062	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	(white)	M22-CLEDC230-W 216578	20 units
				(red)	M22-CLEDC230-R 216579	
				(green)	M22-CLEDC230-G 216580	
				(blue)	M22-CLEDC230-B 218064	

Notes

For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches,

the following applies:

M22...-R only in combination with M22-LED...-R

M22...-G only in combination with M22-LED...-G

M22...-W only in combination with M22-LED...-W

M22...-Y only in combination with M22-LED...-W

M22...-B in combination with M22-LED...-W or M22-LED...-B

Part no. Article no.	Std. pack
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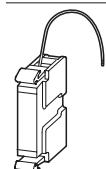
LED series elements with screw terminals

Front and base mounting → Page 75

LED resistor element For connecting 12 - 30 V LED elements	42 - 60 V AC/DC 220 V AC/DC	M22-XLED60 231078	10 units
LED test element For decoupled function test (lamp test)	12 - 240 V AC/DC	M22-XLED-T 231079	
	85 - 264 V AC	M22-XLED230-T 231080	

Notes

¹⁾ Maximum ambient temperature: -25 °C to +55 °C
The LED's brightness will be reduced.



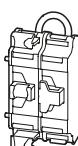
Terminal type	Contact configuration: ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Part no. Article no.	Std. pack
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Front mounting**Contact elements (Flat Rear with Cage Clamp, push-in)**

→ Page 75

Cage Clamp is a registered trademark
of Wago Kontakttechnik GmbH, Minden, Germany

Cage Clamp, push-in	1 N/C ⊕			M22-FK01 180791	20 units
	1 N/O			M22-FK10 180792	

Front mounting**Self-monitoring contact element (Flat Rear with Cage Clamp, push-in)**

N/O is actuated when mounted on the pushbutton.

Cage Clamp, push-in	1 N/C ⊕			M22-FK01SMC10 180793	1 unit
				NC	

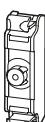
Complete assembly (Flat Rear with Cage Clamp, push-in)

Combination of contact element and self-monitoring contact element M22-FK01SMC10, M22-A mounting adapter, and M22-XSMC signal contact actuator.

The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.

Cage Clamp, push-in	3 N/C ⊕			M22-AFK03SMC10 180794	1 unit
				NC	

Rated operating voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Std. pack
U _e V	I _e mA	P W			

Front mounting**LED elements (Flat Rear with Cage Clamp, push-in)**

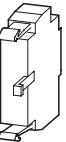
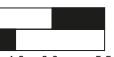
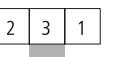
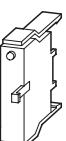
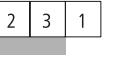
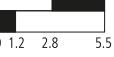
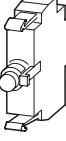
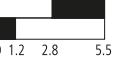
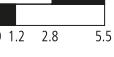
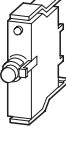
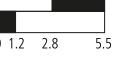
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-W 180795	20 units
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-B 180796	
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-G 180797	
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-R 180798	
24 V DC	10 - 15	0.36 at 24 V		M22-FLED-RG ¹⁾ 180799	
24 V DC	8 - 15	0.36 at 24 V		M22-FLED-RGB ¹⁾ 180800	

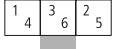
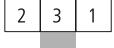
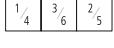
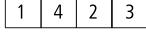
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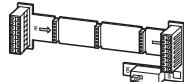
1)

	Terminal color				
		X1	X2	X3	X4
	+R	+G	+B	GND	
M22-FLED-RG	Red	x			x
	Green		x		x
	Yellow	x	x		x
M22-FLED-RGB	Red	x			x
	Green		x		x
	Yellow	x	x		x
	White	x	x	x	x
	Blue			x	x
	Violet	x		x	x
	Turquoise		x	x	x

1

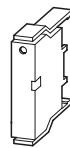
	Number of contacts	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	LED color	Part no. Article no.	Std. pack
Function elements							
Front mounting	1	4 1			No LED	M22-SWD-K11 115964	20 units
	2	4 1 4 1			No LED	M22-SWD-K22 115965	10 units
Base mounting							
Front mounting	1	4 1			No LED	M22-SWD-KC11 115995	20 units
	2	4 1 4 1			No LED	M22-SWD-KC22 115996	10 units
Front mounting	1	4 1			 M22-SWD-K11LED-W 115972	20 units	
	2	4 1 4 1			 M22-SWD-K11LED-B 115973  M22-SWD-K11LED-G 115974  M22-SWD-K11LED-R 115975	 M22-SWD-K22LED-W 115978  M22-SWD-K22LED-B 115979  M22-SWD-K22LED-G 115980  M22-SWD-K22LED-R 115981	10 units
Base mounting	1	4 1			 M22-SWD-K11LEDC-W 116003  M22-SWD-K11LEDC-B 116004  M22-SWD-K11LEDC-G 116005  M22-SWD-K11LEDC-R 116006	20 units	
	2	4 1 4 1			 M22-SWD-K22LEDC-W 116009  M22-SWD-K22LEDC-B 116010  M22-SWD-K22LEDC-G 116011  M22-SWD-K22LEDC-R 116012	10 units	

	Configuration	LED color	Part no. Article no.	Std. pack
LED elements				
Front mounting		   	M22-SWD-LED-W 115966 M22-SWD-LED-B 115967 M22-SWD-LED-G 115968 M22-SWD-LED-R 115969	20 units
Base mounting		   	M22-SWD-LEDC-W 115997 M22-SWD-LEDC-B 115998 M22-SWD-LEDC-G 115999 M22-SWD-LEDC-R 116000	20 units
Mounting adapters				
Front mounting	For 1 M22-SWD-K...function element or M22-SWD-LED...LED element In addition, 1 or 2 M22-K... contact elements possible Sequence number on mounting adapter		—	M22-A 216374
				50 units
	For 2 M22-SWD-K2...function elements For use with M22-WR4, M22-WRJ4, M22-D4 in conjunction with M22-(SWD)-K		—	M22-SWD-A4 116016
				10 units
IP20 universal modules				
Front mounting	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the SWD ribbon cable		M22-SWD-NOP 147637	20 units
Base fixing	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the M22-SWD-I... printed circuit board		M22-SWD-NOPC 147638	20 units

**Printed circuit boards**

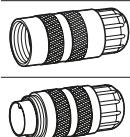
PCBs for M22-I... surface mounting enclosure for housing
M22-SWD...K base mounting function elements
Integrated, connectable SmartWire-DT bus termination resistor

	Part no. Article no.	Std. pack
Number of mounting locations: 1	M22-SWD-I1-LP01 115990	1 unit
Number of mounting locations: 2	M22-SWD-I2-LP01 115991	
Number of mounting locations: 3	M22-SWD-I3-LP01 115992	
Number of mounting locations: 4	M22-SWD-I4-LP01 115993	
Number of mounting locations: 6	M22-SWD-I6-LP01 115994	

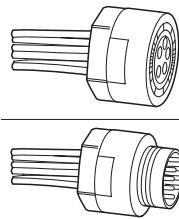
**Link**

Used to link open mounting locations on device plugs or M22-SWD-I PCB

Link for unused mounting locations on M22-SWD-I...LP (base mounting)	M22-SWD-SEL8-10 116698	5 units
--	----------------------------------	---------

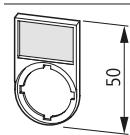
**Connectors for SmartWire-DT round cables**

8-pin socket, straight	SWD4-SF8-67 116033	1 unit
8-pin plug, flat	SWD4-SM8-67 116034	

**Housing bushing sockets**

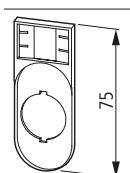
For installation in surface mounting enclosure M22-I...
8-pin socket/plug, IP67, for connection to SWD4-S(M,F)-67...
8 prefabricated cables for connection to M22-SWD-I... PCB

8-pin socket, M20	SWD4-SF8-20 116031	1 unit
8-pin plug, M20	SWD4-SM8-20 116032	1 unit



Inscription	Part no. Article no.	Std. pack	Inscription	Part no. Article no.	Std. pack
Legend holders, complete					
IP66 30 x 50 mm, round, black (RAL 9005)					
- 0 I	M22S-ST-X88 216485	10 units	FAULT	M22S-ST-GB8 216498	10 units
0 - I	M22S-ST-X89 218147		DÉFAUT	M22S-ST-F67 256795	
I 0 II	M22S-ST-X93 216486		BETRIEB	M22S-ST-D7 216488	
1	M22S-ST-X52 256797		RUN	M22S-ST-GB7 216497	
2	M22S-ST-X53 256798		EN SERVICE	M22S-ST-F7 256793	
STOP	M22S-ST-GB0 216494		HAND AUTO	M22S-ST-D11 216492	
START	M22S-ST-GB1 216495		MAN. AUTO	M22S-ST-GB11 216500	
AUS	M22S-ST-D5 218299		AUS EIN	M22S-ST-D10 216490	
OFF	M22S-ST-GB5 218300		OFF ON	M22S-ST-GB10 216499	
ARRÊT	M22S-ST-F0 256791		ARRÊT MARCHE	M22S-ST-F10 256794	
EIN	M22S-ST-D6 216487		HAND O AUTO	M22S-ST-D12 216493	
ON	M22S-ST-GB6 216496		MAN. O AUTO	M22S-ST-GB12 216501	
MARCHE	M22S-ST-F1 256792		SOUS TENSION	M22S-ST-F68 256796	
STÖRUNG	M22S-ST-D8 216489				

Inscription	Color	Part no. Article no.	Std. pack	Notes
Legend holders without label				
IP66 Round, black (RAL 9005)				
30 x 50 mm	●	M22S-ST-X 216392	25 units	Cannot be used for M22(S)-PV...
30 x 50 mm	●	M22S-ST-X-GVP 216393	500 units	
For double actuator pushbuttons 30 x 75 mm	●	M22S-STDD-X 216394	10 units	—



Insert labels for label mounts					
18 x 27 mm					
Aluminum color, no inscription	—	M22-XST 216480	100 units	—	
Aluminum color, no inscription	—	M22-XST-GVP 216481	500 units	—	
* = With customized Label Editor inscription → Page 74	—	M22-XST-* 216482	1 unit	Letter height of 3 mm: Max. 3 lines, Max. 12 characters per line Letter height of 5 mm: Max. 2 lines, Max. 8 characters per line	

Inscription or explanation	For use with	Color, symbol	Style: flush Part no. Article no.	Style: extended Part no. Article no.	Std. pack
Button plates for pushbuttons					
≤ 5 characters: letter height of 5 mm, > 5 characters: letter height of 3 mm					
—	M22(S)-D-X M22(S)-DR-X	●	M22-XD-S 216421	M22-XDH-S 216428	10 units
—	M22-DG-X	○	M22-XD-W 216422	M22-XDH-W 216429	
—	M30C-FD-X M30C-FDR-X	●	M22-XD-R 216423	M22-XDH-R 216430	
—		●	M22-XD-G 216424	M22-XDH-G 216431	
—		●	M22-XD-Y 216425	M22-XDH-Y 216432	
—		●	M22-XD-B 216426	M22-XDH-B 216433	
—		●	M22-XD-GR 132670		
With customized Label Editor inscription → Notes		—	M22-XD-*-* 216427	M22-XDH-*-* 216434	
Zu		●	M22-XD-S-D2 218184	M22-XDH-S-D2 218229	
Auf		●	M22-XD-S-D3 218185	M22-XDH-S-D3 218230	
Ab		●	M22-XD-S-D4 218186	M22-XDH-S-D4 218231	
Aus		●	M22-XD-R-D5 218187	M22-XDH-R-D5 218232	
Ein		●	M22-XD-S-D6 218188	M22-XDH-S-D6 218233	
Entsperrnen		●	M22-XD-B-D14 218189	M22-XDH-B-D14 218234	
Vorwärts		●	M22-XD-S-D15 218190	M22-XDH-S-D15 218235	
Rückwärts		●	M22-XD-S-D16 218191	M22-XDH-S-D16 218236	
Heben		●	M22-XD-S-D17 218192	M22-XDH-S-D17 218237	
Senken		●	M22-XD-S-D18 218193	M22-XDH-S-D18 218238	
STOP		●	M22-XD-R-GB0 218194	M22-XDH-R-GB0 218239	
STOP		●	M22-XD-S-GB0 218195	M22-XDH-S-GB0 218240	
START		●	M22-XD-G-GB1 218196	M22-XDH-G-GB1 218241	
START		○	M22-XD-W-GB1 218197	M22-XDH-W-GB1 218242	
CLOSE		●	M22-XD-S-GB2 218198	M22-XDH-S-GB2 218243	
UP		●	M22-XD-S-GB3 218199	M22-XDH-S-GB3 218244	
DOWN		●	M22-XD-S-GB4 218200	M22-XDH-S-GB4 218245	
TEST		●	M22-XD-S-GB9 218201	M22-XDH-S-GB9 218246	
OFF		●	M22-XD-R-GB5 218202	M22-XDH-R-GB5 218247	
ON		●	M22-XD-S-GB6 218203	M22-XDH-S-GB6 218248	

Notes

When ordering, replace the asterisks in part no. M22-XD(H)-*-* as follows:

1. Wildcard ▲ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)
2. Wildcard ▲ filename assigned by Label Editor → Page 74

Text size of 3 mm:
 Max. 8 characters in 1st line,
 10 characters in 2nd line, 8 characters
 in 3rd line



Text size of 5 mm:
 Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Style: flush Part no. Article no.	Style: extended Part no. Article no.	Std. pack
Button plates for pushbuttons					
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm					
RESET	M22(S)-D-X M22(S)-DR-X		M22-XD-B-GB14 218204	M22-XDH-B-GB14 218249	10 units
FORWARD	M22-DG-X M30C-FD-X		M22-XD-S-GB15 218205	M22-XDH-S-GB15 218250	
REVERSE	M30C-FDR-X		M22-XD-S-GB16 218206	M22-XDH-S-GB16 218251	
RAISE			M22-XD-S-GB17 218208	M22-XDH-S-GB17 218252	
LOWER			M22-XD-S-GB18 218209	M22-XDH-S-GB18 218253	
Stop			M22-XD-R-X0 218153	M22-XDH-R-X0 218155	
Stop			M22-XD-S-X0 218154	M22-XDH-S-X0 218156	
Start			M22-XD-G-X1 218165	M22-XDH-G-X1 218210	
Start			M22-XD-S-X1 218166	M22-XDH-S-X1 218211	
Start			M22-XD-W-X1 218167	M22-XDH-W-X1 218212	
Start			M22-XD-G-X2 218168	M22-XDH-G-X2 218213	
Start			M22-XD-S-X2 218169	M22-XDH-S-X2 218214	
Increase			M22-XD-S-X4 218170	M22-XDH-S-X4 218215	
Decrease			M22-XD-S-X5 218171	M22-XDH-S-X5 218216	
Reset			M22-XD-B-X6 218172	M22-XDH-B-X6 218217	
Direction of movement			M22-XD-S-X7 218173	M22-XDH-S-X7 218218	
Direction of movement			M22-XD-S-X8 218174	M22-XDH-S-X8 218219	
Manual			M22-XD-S-X9 218175	M22-XDH-S-X9 218220	
Automatic			M22-XD-S-X10 218176	M22-XDH-S-X10 218221	
Inch			M22-XD-S-X11 218177	M22-XDH-S-X11 218222	
Unlock			M22-XD-S-X12 218178	M22-XDH-S-X12 218223	
Unclamp			M22-XD-S-X13 218179	M22-XDH-S-X13 218224	
Clamp			M22-XD-S-X14 218180	M22-XDH-S-X14 218225	
Release			M22-XD-S-X15 218181	M22-XDH-S-X15 218226	
Liquid			M22-XD-S-X16 218182	M22-XDH-S-X16 218227	
Klaxon			M22-XD-S-X17 218183	M22-XDH-S-X17 218228	

Inscription or explanation	For use with	Color	Part no. Article no.	Std. pack
Button plates for mushroom pushbuttons				
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm	M22(S)-D(R)P-...			
—		●	M22-XDP-S 216435	10 units
—		○	M22-XDP-W 216436	
—		●	M22-XDP-R 216437	
—		●	M22-XDP-G 216438	
—		●	M22-XDP-Y 216439	
—		—	M22-XDP-*-* 216440	
With customized Label Editor inscription → Notes		●	M22-XDP-S-D2 218272	
Zu		●	M22-XDP-S-D3 218273	
Auf		●	M22-XDP-S-D4 218274	
Ab		●	M22-XDP-R-D5 218275	
Aus		●	M22-XDP-S-D6 218276	
Ein		●	M22-XDP-S-D15 218277	
Vorwärts		●	M22-XDP-S-D16 218278	
Rückwärts		●	M22-XDP-S-D17 218279	
Heben		●	M22-XDP-S-D18 218280	
Senken		●	M22-XDP-R-GB0 218281	
STOP		●	M22-XDP-S-GB0 218282	
STOP		●	M22-XDP-G-GB1 218283	
START		○	M22-XDP-W-GB1 218284	
START		●	M22-XDP-S-GB2 218285	
CLOSE		●	M22-XDP-S-GB3 218286	
UP		●	M22-XDP-S-GB4 218287	
DOWN		●	M22-XDP-R-GB5 218289	
OFF		●	M22-XDP-S-GB6 218290	
ON		●	M22-XDP-S-GB9 218288	
TEST		●	M22-XDP-S-GB15 218291	
FORWARD		●	M22-XDP-S-GB16 218292	
REVERSE		●		

Notes

The following information must be added to the part no. when ordering:
 1. Wildcard * \triangleq Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)
 2. Wildcard * \triangleq Filename assigned by Label Editor → Page 74

Text size of 3 mm:
 Max. 8 characters in first line,
 10 characters in second line,
 8 characters in third line



Text size of 5 mm:
 Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Part no. Article no.	Std. pack
Button plates for mushroom pushbuttons				
≤ 5 characters: letter height 5 of mm ≥ 5 characters: letter height of 3 mm				
RAISE	M22(S)-D(R)P-...	●	M22-XDP-S-GB17 218293	10 units
LOWER		●	M22-XDP-S-GB18 218294	
Stop		○ (red)	M22-XDP-R-X0 218157	
Stop		○	M22-XDP-S-X0 218158	
Start		I (green)	M22-XDP-G-X1 218254	
Start		I (black)	M22-XDP-S-X1 218255	
Start		I (blue)	M22-XDP-W-X1 218256	
Start		II (green)	M22-XDP-G-X2 218257	
Start		II (black)	M22-XDP-S-X2 218258	
Increase		+	M22-XDP-S-X4 218259	
Decrease		-	M22-XDP-S-X5 218260	
Direction of movement		↑	M22-XDP-S-X7 218261	
Direction of movement		↓	M22-XDP-S-X8 218262	
Manual		↙	M22-XDP-S-X9 218263	
Automatic		↗	M22-XDP-S-X10 218264	
Inch		⊕	M22-XDP-S-X11 218265	
Unlock		⊖	M22-XDP-S-X12 218266	
Unclamp		↔	M22-XDP-S-X13 218267	
Clamp		⊕ (green)	M22-XDP-S-X14 218268	
Release		⊖ (green)	M22-XDP-S-X15 218269	
Liquid		⊖ (blue)	M22-XDP-S-X16 218270	
Klaxon		⊖ (black)	M22-XDP-S-X17 218271	

Inscription or explanation	For use with	Color	Style: flush Part no. Article no.	Std. pack	Style: extended Part no. Article no.	Std. pack
Lenses for indicator lights						
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm						
—	M22-L-X M22-LC-X	○	M22-XL-W 216453	10 units	M22-XLH-W 216459	10 units
—		●	M22-XL-R 216454		M22-XLH-R 216460	
—		●	M22-XL-G 216455		M22-XLH-G 216461	
—		●	M22-XL-Y 216456		M22-XLH-Y 216462	
—		●	M22-XL-B 216457		M22-XLH-B 216463	
—		●	M22-XL-A 118740		M22-XLH-A 118741	
With customized Label Editor inscription → Notes		—	M22-XL-*-* 216458			
Zu		●	M22-XL-W-D2 218403			
Auf		●	M22-XL-W-D3 218404			
Ab		●	M22-XL-W-D4 218405			
Aus		●	M22-XL-R-D5 218406			
Ein		●	M22-XL-W-D6 218407			
Vorwärts		●	M22-XL-W-D15 218408			
Rückwärts		●	M22-XL-W-D16 218409			
Heben		●	M22-XL-W-D17 218410			
Senken		●	M22-XL-W-D18 218411			
STOP		●	M22-XL-R-GB0 218412			
STOP		●	M22-XL-W-GB0 218413			
START		●	M22-XL-G-GB1 218414			
START		●	M22-XL-W-GB1 218415			
CLOSE		●	M22-XL-W-GB2 218416			
UP		●	M22-XL-W-GB3 218417			
DOWN		●	M22-XL-W-GB4 218418			
TEST		●	M22-XL-W-GB9 218419			
OFF		●	M22-XL-R-GB5 218420			
ON		●	M22-XL-W-GB6 218421			
FORWARD		●	M22-XL-W-GB15 218422			

Notes

The following information must be added to the part no. when ordering:
 1. Wildcard Δ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)
 2. Wildcard Δ Filename assigned by Label Editor → Page 74

Text size of 3 mm:
 Max. 8 characters in first line,
 10 characters in second line,
 8 characters in third line

Text size of 5 mm:
 Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Part no. Article no.	Std. pack
Lenses for indicator lights				
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
REVERSE	M22-L-X M22-LC-X		M22-XL-W-GB16 218423	10 units
RAISE			M22-XL-W-GB17 218424	
LOWER			M22-XL-W-GB18 218425	
Stop			M22-XL-R-X0 218163	
Stop			M22-XL-W-X0 218164	
Start			M22-XL-G-X1 218384	
Start			M22-XL-W-X1 218385	
Start			M22-XL-G-X2 218386	
Start			M22-XL-W-X2 218387	
Increase			M22-XL-W-X4 218388	
Decrease			M22-XL-W-X5 218389	
Direction of movement			M22-XL-W-X7 218390	
Direction of movement			M22-XL-W-X8 218391	
Manual			M22-XL-W-X9 218392	
Automatic			M22-XL-W-X10 218393	
Inch			M22-XL-W-X11 218394	
Unlock			M22-XL-W-X12 218395	
Unclamp			M22-XL-W-X13 218396	
Clamp			M22-XL-W-X14 218399	
Release			M22-XL-W-X15 218400	
Liquid			M22-XL-W-X16 218401	
Klaxon			M22-XL-W-X17 218402	

Inscription or explanation	For use with	Color	Style: flush Part no. Article no.	Std. pack	Style: extended Part no. Article no.	Std. pack
Button lenses for illuminated pushbutton actuators						
≤ 5 characters: letter height of 5 mm ≥ 5 characters: letter height of 3 mm						
—	M22(S)-D-X M22(S)-DR-X	●	M22-XDL-W 216441	10 units	M22-XDLH-W 216447	10 units
—	M22-DG-X M30C-FDL-X M30C-FDRL-X	●	M22-XDL-R 216442		M22-XDLH-R 216448	
—		●	M22-XDL-G 216443		M22-XDLH-G 216449	
—		●	M22-XDL-Y 216444		M22-XDLH-Y 216450	
—		●	M22-XDL-B 216445		M22-XDLH-B 216451	
—		●	M22-XDL-A 167437		M22-XDLH-A 167438	
With customized Label Editor inscription → Notes		—	M22-XDL-*-* 216446		M22-XDLH-*-* 216452	
Zu		●	M22-XDL-W-D2 218316		M22-XDLH-W-D2 218359	
Auf		●	M22-XDL-W-D3 218317		M22-XDLH-W-D3 218360	
Ab		●	M22-XDL-W-D4 218318		M22-XDLH-W-D4 218361	
Aus		●	M22-XDL-R-D5 218319		M22-XDLH-R-D5 218362	
Ein		●	M22-XDL-W-D6 218320		M22-XDLH-W-D6 218363	
Ent sperren		●	M22-XDL-B-D14 218321		M22-XDLH-B-D14 218364	
Vorwärts		●	M22-XDL-W-D15 218322		M22-XDLH-W-D15 218365	
Rückwärts		●	M22-XDL-W-D16 218323		M22-XDLH-W-D16 218366	
Heben		●	M22-XDL-W-D17 218324		M22-XDLH-W-D17 218367	
Senken		●	M22-XDL-W-D18 218325		M22-XDLH-W-D18 218368	
STOP		●	M22-XDL-R-GB0 218326		M22-XDLH-R-GB0 218369	
STOP		●	M22-XDL-W-GB0 218327		M22-XDLH-W-GB0 218370	
START		●	M22-XDL-G-GB1 218328		M22-XDLH-G-GB1 218371	
START		●	M22-XDL-W-GB1 218329		M22-XDLH-W-GB1 218372	
CLOSE		●	M22-XDL-W-GB2 218330		M22-XDLH-W-GB2 218373	
UP		●	M22-XDL-W-GB3 218331		M22-XDLH-W-GB3 218374	
DOWN		●	M22-XDL-W-GB4 218332		M22-XDLH-W-GB4 218375	
TEST		●	M22-XDL-W-GB9 218333		M22-XDLH-W-GB9 218376	
OFF		●	M22-XDL-R-GB5 218334		M22-XDLH-R-GB5 218377	
ON		●	M22-XDL-W-GB6 218335		M22-XDLH-W-GB6 218378	

Notes

The following information must be added to the part no. when ordering:

1. Wildcard * ≈ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow)
2. Wildcard * ≈ Filename assigned by Label Editor → Page 74

Text size of 3 mm:

Max. 8 characters in first line,
10 characters in second line,
8 characters in third line



Text size of 5 mm:

Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Style: flush Part no. Article no.	Std. pack	Style: extended Part no. Article no.	Std. pack
Button lenses for illuminated pushbutton actuators						
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm						
RESET	M22(S)-D-X M22(S)-DR-X		M22-XDL-B-GB14 218336	10 units	M22-XDLH-B-GB14 218379	10 units
FORWARD	M22-DG-X M30C-FDL-X M30C-FDRL-X		M22-XDL-W-GB15 218337		M22-XDLH-W-GB15 218380	
REVERSE			M22-XDL-W-GB16 218338		M22-XDLH-W-GB16 218381	
RAISE			M22-XDL-W-GB17 218339		M22-XDLH-W-GB17 218382	
LOWER			M22-XDL-W-GB18 218340		M22-XDLH-W-GB18 218383	
Stop			M22-XDL-R-X0 218159		M22-XDLH-R-X0 218161	
Stop			M22-XDL-W-X0 218160		M22-XDLH-W-X0 218162	
Start			M22-XDL-G-X1 218295		M22-XDLH-G-X1 218341	
Start			M22-XDL-W-X1 218296		M22-XDLH-W-X1 218342	
Start			M22-XDL-G-X2 218297		M22-XDLH-G-X2 218343	
Start			M22-XDL-W-X2 218301		M22-XDLH-W-X2 218344	
Increase			M22-XDL-W-X4 218302		M22-XDLH-W-X4 218345	
Decrease			M22-XDL-W-X5 218303		M22-XDLH-W-X5 218346	
Reset			M22-XDL-B-X6 218304		M22-XDLH-B-X6 218347	
Direction of movement			M22-XDL-W-X7 218305		M22-XDLH-W-X7 218348	
Direction of movement			M22-XDL-W-X8 218306		M22-XDLH-W-X8 218349	
Manual			M22-XDL-W-X9 218307		M22-XDLH-W-X9 218350	
Automatic			M22-XDL-W-X10 218308		M22-XDLH-W-X10 218351	
Inch			M22-XDL-W-X11 218309		M22-XDLH-W-X11 218352	
Unlock			M22-XDL-W-X12 218310		M22-XDLH-W-X12 218353	
Unclamp			M22-XDL-W-X13 218311		M22-XDLH-W-X13 218354	
Clamp			M22-XDL-W-X14 218312		M22-XDLH-W-X14 218355	
Release			M22-XDL-W-X15 218313		M22-XDLH-W-X15 218356	
Liquid			M22-XDL-W-X16 218314		M22-XDLH-W-X16 218357	
Klaxon			M22-XDL-W-X17 218315		M22-XDLH-W-X17 218358	

Degree of protection	Mounting locations	Color	RAL number	Cable entry knockouts	Part no.	Std. pack
	Qty.			Number of M20 knockouts	Article no.	

Flush mounting plates

No add-on legend plates possible when using a vertical layout

Degree of protection only in conjunction with a suitable enclosure and correct mounting.

Aluminum with yellow paint finish for emergency stop button		IP65	1		RAL 1004	-	M22-EY1 216542	5 units
Aluminum Bright dip anodized, including M22-XE...			1		RAL 7035	-	M22-E1 216541	
			2			-	M22-E2 216543	
			3			-	M22-E3 216544	
			4			-	M22-E4 216545	1 unit
			5			-	M22-E5 216546	
		IP40	6			-	M22-E6 216547	

Shrouds

Light gray plastic

Degree of protection only in combination with M22-E... flush mounting plates

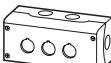
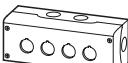
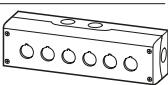
		IP55	1		RAL 7035	3	M22-H1 216548	1 unit
			2			4	M22-H2 216549	
			3			4	M22-H3 216550	
		IP40	4			4	M22-H4 216551	
			5			5	M22-H5 216552	
			6			6	M22-H6 216553	

Set of plaster keys

Comprising two plaster keys that can be used as mounting aids

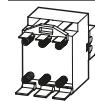
For shroud plasterboard mounting

	-	-	-	-	-	-	M22-UPE 216554	1 unit
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Mounting locations	Enclosure material	Cable entries	Degree of protection	Color	RAL number	Color	Part no.	Std. pack
Surface mounting enclosures								Enclosure base
With stainless steel screws								
								
1	Plastic	At bottom: 2 x M16 At top: 1 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K	●	RAL 7035	Anthracite	M22-I1 216535	1 unit
				●	RAL 1004	Anthracite	M22-IY1 216536	
				●	RAL 1004	Anthracite	M22-IY1-XPV60¹⁾ 167798	
				—	—	—	M22-I1M/SS²⁾ 118455	
				●	RAL 1004	—	M22-I1MGE-SAL 118456	
				—	—	—	M22-I1M-SAL 118457	
								
2	Plastic	At bottom: 2 x M20	IP67, IP69K	●	RAL 7035	Anthracite	M22-I2 216537	
		Stainless steel	At top: 1 x M20	—	—	—	M22-I2M/SS²⁾ 118458	
		Metal	On the sides: 2 x M20/M25 (one on each side)	—	—	—	M22-I2M-SAL 118459	
								
3	Plastic	At bottom: 2 x M20	IP67, IP69K	●	RAL 7035	Anthracite	M22-I3 216538	
		Stainless steel	At top: 2 x M20	—	—	—	M22-I3M/SS²⁾ 118460	
		Metal	On the sides: 2 x M20/M25 (one on each side)	—	—	—	M22-I3M-SAL 118461	
								
4	Plastic	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K	●	RAL 7035	Anthracite	M22-I4 216539	
								
6	Plastic	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP66	●	RAL 7035	Anthracite	M22-I6 216540	

Notes¹⁾ With additional cable entry in the front for M22-XPV60... illuminated ring²⁾ With mounting tabs on the sides

Mounting locations	Cable entry knockouts		Color	RAL number	Degree of protection	Part no.	Std. pack
Qty.	Bottom	Sides					
	Number of M...	Number of M...					
Surface mounting enclosure							
Including mounting plate for base mounting Anthracite enclosure base							
12	2 x 32/25	2 x 20 4 x 32/25	●	RAL 7035	IP55	M22-I12 222688	1 unit
M20 connecting screw							
For connecting any M22-I... surface mounting enclosures Installed through M20 cable entry on the side							
—	—	—	—	—	IP67	M22-XI 229162	25 units
M20 metric cable glands as defined in EN 50262							
With lock nut and integrated strain relief Polyamide, halogen-free External diameter of cable: 6 - 13 mm							
—	—	—	—	—	IP68, IP69K	V-M20 206910	20 units



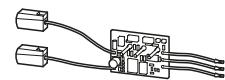
	Description	Part no. Article no.	Std. pack
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AS-Interface connection for RMQ-Titan

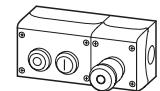
For front mounting (RMQ-Titan)	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C), M22-K10 (N/O) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	M22-ASI 231269	1 unit
For base mounting (RMQ-Titan)	Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Inputs for 2 contacts Output for 1 LED element: M22-LED-...	M22-ASI-C 231271	1 unit
For surface mounting enclosures (RMQ-Titan)	External connections: 4 inputs/4 outputs (for RMQ contact and lamp socket elements.) RMQ-Titan surface mounting enclosures: M22-I3, M22-I4, M22-I6	RMQ-M1C-ASI 032314	1 unit

Emergency stop interfaces for AS-Interface for safety monitor**For front mounting**

For front mounting	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 1 dual-channel input, 1 output Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	M22-ASI-S 231270	1 unit
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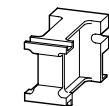
For base mounting

For base mounting	AS-Interface slave Adapter element for RMQ-Titan or FAK AS-Interface information: 1 dual-channel input, 1 output for the following RMQ-Titan contact and LED elements: Inputs for 2 contact elements: M22-K01 or M22-K01 (N/C) Output for 1 LED element: M22-LED-...	M22-ASI-CS 231272	1 unit
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AS-Interface complete device	M22-I2 and M22-I2Y surface mounting enclosures M22-PVL emergency stop button and ON/OFF pushbutton; ON illuminated 1 M22-AS-Interface-CS and 1 M22-AS-Interface-C 1 M12A connector Address for M22-PVL → 0; ON/OFF 1 A	M22-I1/2-M1-ASI 107405	1 unit
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For use with	Color	Part no. Article no.	Std. pack
			
Gold bezel (24 Carat)			
Bezel not available individually: Can be ordered only through Eaton sales office as M22-COMBINATION-* (customized complete devices)	—	M22-FR-AU 274150	1 unit
			
Blanking plugs			
Round design, IP67, IP69K For sealing spare mounting locations			
M22	●	M22-B 216388	50 units
M22	●	M22-B-GVP 216389	250 units
M22	●	M22S-B 216390	50 units
M22	●	M22S-B-GVP 216391	250 units
M30	●	M30C-FB 187028	1 unit
			
Pushbutton diaphragms for IP67, IP69K, silicone			
Transparent diaphragms for harsh environmental conditions and use in the food industry. Do not use with legend holder M22S-ST, as the degree of protection will not be guaranteed	—	M22-T-D 216395	10 units
			
Protective diaphragm, silicone			
Prevents the ingress of dirt and dust into the key opening.	—	M22-T-DD 216396	10 units
			
Telescopic clips			
For adjusting the depth of rear mounting devices in CI enclosures and cabinets with mounting depths of 115 to 155 mm. Continuously adjustable; screw and snap fitting (IEC/EN 60715 DIN-rail); maximum of 10 M22-TC units permissible per enclosure, of which 5 must have pushbuttons with maintained action. Do not use in conjunction with emergency stop buttons.	—	M22-XWS 231275	5 units
			
3 contact/LED elements, base mounting configuration, including centering adapter	—	M22-TC 216398	10 units
			
With IEC/EN 60715 DIN-rail, width of 44 mm For mounting EASY, FAZ, PKZ, DIL, etc. weighing ≤ 0.3 kg	—	M22-TA 226161	1 unit
easy200, easy500, easy700, easy800, MFD-CP8, EC4P Continuously adjustable over scales of 75 - 115 mm	—		



For use with

Part no.
Article no.

Std. pack

Extension

Telescopic clip for a mounting depth of up to 205 mm

M22-TCV
225527

5 units

**IVS top-hat rail adapter**

IEC/EN 60715 DIN-rail for front mounting

M22-IVS
216400

1 unit

**Plunger bridge**

For actuating the middle contact element of the M22-W...3 non-illuminated 3-position selector switch → Page 74

M22-XW
216405

10 units

**Guard ring**To protect against accidental actuation, IP66
For pushbuttons and selector switches
(add-on legend plates cannot be used)**M22-XGWK**
231274

5 units

**Threaded rings**

M22 x 1.5 mm

M22-GR
216401

50 units

6.0 mm thick

M22-GR7
288852

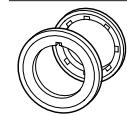
50 units

4.8 mm thick

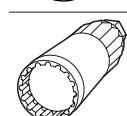
M22-GR-GVP
216404

500 units

6.0 mm thick

**30/22.3 mm set of adapter rings**Black, consisting of adapter ring and fixing nut, IP67, IP69K
For installing 22.3 mm diameter devices in 30.5 mm diameter holes
The degree of protection is determined by the front element**M22S-R30**
216408

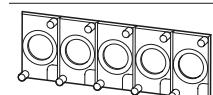
10 units

**Mounting ring tool**

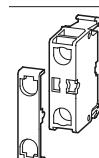
For threaded ring; can be used with cordless screwdriver.

M22-MS
216402

5 units

**Fixing plate**M22-H... on M22-E... flush mounting plate
for 5 mounting locations**M22-XE5**
218945

1 unit

**Dust cover**

For M22-K... contacts (front mounting)

M22-XKDP
100647

50 units

**Dust cover and mechanical mount**For M22...
5 x M20 knockouts**M22-ADC**
106523

1 unit

Max. 3 contacts

M22-ADC4
106524

Max. 4 contacts

M22-XADC
107918

Mechanical mount

**Gasket**

For add-on legend plates used on uneven surfaces

M22-XZD
134826

50 units

Version	Lifespan at $t_a = +25^\circ\text{C}$ $t_{\text{average}}(\text{AC})$ h	Color	Part no. Article no.	Std. pack
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**BA 9s incandescent lamps for compact indicator lights**

High-quality versions from select manufacturers

110 - 130 V/2.4 W	2000	–	A22-GL130 261361	100 units
24 V/2.0 W	5000	–	A22-GL24 261360	100 units

**BA 9s single-chip LEDs for compact indicator lights**

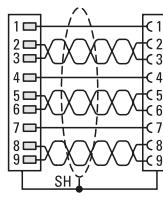
For AC and DC (positive pole connected to X1), protected against polarity reversal, integral suppressor circuit up to 1500 V

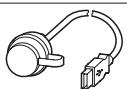
12 - 30 V AC/DC/15 mA	100000	○	A22-LED-W 261362	10 units
12 - 30 V AC/DC/15 mA	100000	●	A22-LED-R 261364	
12 - 30 V AC/DC/15 mA	100000	●	A22-LED-G 261363	
12 - 30 V AC/DC/15 mA	100000	●	A22-LED-Y 261365	

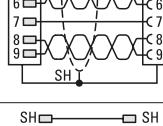
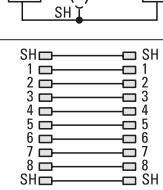
Cable length	Terminal diagram / Contact assignment	Silver bezel	Black bezel	Std. pack
		Part no. Article no.	Part no. Article no.	

m

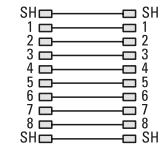
M22 USB and RJ45 panel mount connectorsFront mounting
IP65 (with closed cover), IP20 (with plug connected)

USB 3.0 socket, Type A	–		M22-USB 147539	M22S-USB 147541	1 unit
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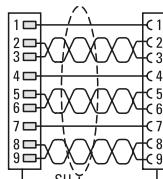


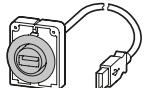
Prefabricated cable with permanently connected USB 3.0 Type A plug	0.6		M22-USB-SA 107412	M22S-USB-SA 147535	1 unit
	1.5		M22-USB-SA-150 147543	M22S-USB-SA-150 147545	

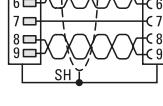
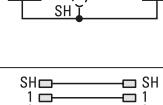
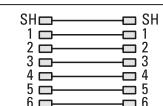


RJ45 socket, 8/8, Cat 5e	–		M22-RJ45-SA 107413	M22S-RJ45-SA 147537	1 unit
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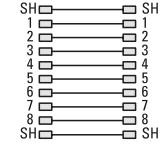
**M30C USB and RJ45 panel mount connectors
(Flat Front)**Front mounting
IP20 (with plug connected)

With permanently connected USB 3.0 Type A plug	–		M30C-FUSB 187082	1 unit
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Prefabricated cable with permanently connected USB 3.0 eA plug	0.3		M30C-FUSB-30 187083	1 unit
	0.6		M30C-FUSB-60 187084	
	1.5		M30C-FUSB-150 187085	



RJ45 socket, 8/8, Cat 5e	–		M30C-FRJ45 187086	1 unit
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For use with	Color	Part no. Article no.	Std. pack	Notes
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Pushbuttons

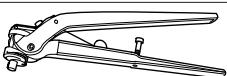
For enclosed overload relays
Mounting hole diameter: 22.3 mm

ZW7...		M22-DZ-B 254833	10 units	Blue button plate
ZB12		M22-DZ-B-GB14 254834		Blue button plate Inscription: RESET
ZB32		M22-DZ-X 254835		Without button plate, add button plate

**Bulb extractor**

For M22-LC(H)... compact indicator light

A22-GL...	—	M22-LG 216403	5 units	—
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**Notching tool**

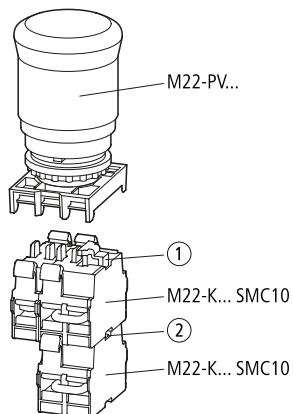
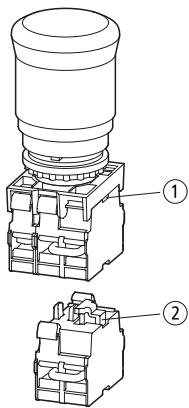
Punching tool used to produce the cutout for the anti-rotation tab as defined
in IEC/EN 60947-5-1
St 37 sheet steel: max. 3 mm thickness
Stainless steel: max. 1.5 mm thickness

—	BA/C-NZ-22 028144	1 unit	—
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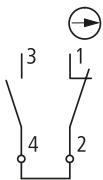
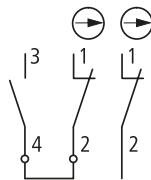
**Customized complete devices**

To order, use form F0315 → Data sheet in online catalog

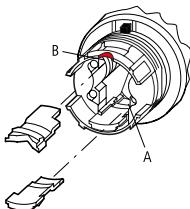
—	—	M22-COMBINATION 2010741	1 unit	—
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Engineering**M22...SMC10**

- ① The self-monitoring contact mechanically monitors the connection on the M22-PV...
 ② The self-monitoring contact mechanically monitors the connection on the M22-K... SMC10 safety contact above it; but not the connection on the M22-PV...

**M22-K01SMC10
M22-KC01SMC10****M22-K02SMC10
M22-KC02SMC10**

When the self-monitoring contact is mounted correctly, the N/O contact is closed.
 The emergency stop/controlled stop circuit will be activated by means of an N/C and N/O connected in series if:
 • The emergency stop/controlled stop button is pressed OR
 • The self-monitoring contact is mechanically separated from the pushbutton

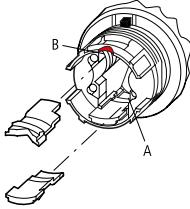
**Changing between maintained/momentary action and changing
the key withdraw on selector switches with 3 positions**

	I	O	II
	A	B	
60° ↓ 60°	- ✓	✓ -	✓
50° ↓ 50°	✓ x	✓	✓ x
60° ↓ 50°	- ✓	✓	✓ x
50° ↓ 60°	✓ x	✓	- ✓
40° ⇄ 40°	✓ x	✓	✓ x
60° ↓ 40°	- ✓	✓	✓ x
50° ↓ 40°	✓ x	✓	✓ x
40° ⇄ 60°	✓ x	✓	- ✓
40° ⇄ 50°	✓ x	✓	✓ x

✓ = Key is withdrawable
x = Key is not withdrawable

Configuration adapters

- 2x M22-XC-Y → Page 30
1x M22-XC-R → Page 30
1x

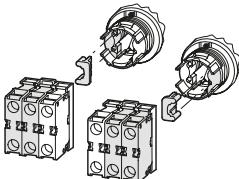
**Changing between maintained/momentary action and changing
the key withdraw on selector switches with 2 positions**

	O	I
		B
✓ 60°	✓	-
✓ 50°	✓	✓ x
✓ 40°	✓	✓ x

✓ = Key is withdrawable
x = Key is not withdrawable

Configuration adapters

- 2x M22-XC-Y → Page 30
1x M22-XC-R → Page 30

**Plunger bridge for the middle contact on M22(S)-W...3-...
3-position selector switches****Customized inscription for devices using the Label Editor function
in the Pushbutton Configurator**

To add a custom inscription to your device, simply follow the four steps below:

- Open the Pushbutton Configurator by visiting: www.eaton.eu/config/rmq
- Create your label template (the software features menus to guide you through the process)
- Send the label template to the factory by e-mail. The program will automatically set the e-mail address based on the selected product. When you send your template, the Pushbutton Configurator will automatically assign it a filename such as "RMQ_Titan_12345.zip". This filename is part of the article no. that needs to be used when ordering (see ordering examples)
- Send the order to the Eaton sales office or the appropriate electrical wholesale distributor

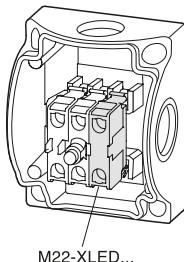
Ordering examples:

- M22-XST insert label for M22S-ST-X label mount with custom inscription
Basic part no.: M22-XST-*
* = Filename assigned by Label Editor
Please order: 1 x M22-XST-RMQ_Titan_xxxxxx.zip
- Green button plate with custom inscription
Basic part no.: M22-XDH-*
1st * = Color ("G" for "green" in this case); 2nd * = Filename assigned by Label Editor
Please order: 1 x M22-XDH-G-RMQ_Titan_xxxxxx.zip
- Double actuator pushbutton with white button plates and custom symbols
Basic part no.: M22-DDL-*-*-*
1st * = Color ("W" for "white" in this case); 2nd and 3rd * = Filename assigned by Label Editor; must be entered twice
Please order: 1 x M22-DDL-W-RMQ_Titan_xxxxxx.zip-RMQ_Titan_xxxxxx.zip
- Key-operated button, 2 positions, individual lock mechanism number MS1, custom symbol
Basic part no.: M22-WRS*-MS*-*
WRS*: * = Number of positions
MS*: * = Individual lock mechanism number
-*: * = Filename assigned by Label Editor
Please order: 1 x M22-WRS2-MS1-RMQ_Titan_xxxxxx.zip

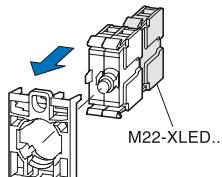
LED series resistor elements

M22-XLED

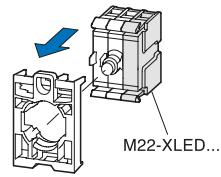
Surface mounting enclosure



Flush mounting at the rear



Flush mounting at the side

**LED resistor element**

M22-XLED60/M22-XLED220

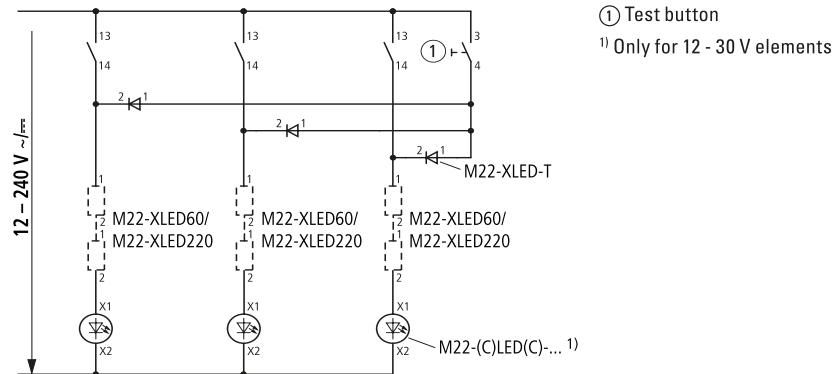
$U_e \sim /_{\text{---}}$	M22-XLED60	1 x	2 x	3 x	4 x	5 x	6 x	7 x
$12 - 30 V \sim /_{\text{---}}$	$U_e [\text{AC/DC}] \leq$	60 V	90 V	120 V	150 V	180 V	210 V	240 V
	M22-XLED220	1 x						

$U_e \sim /_{\text{---}}$	M22-XLED60/M22-XLED220	X1	X2	M22-(C)LED(C)-...	$U_e [\text{AC/DC}] \leq$	1 x
$12 - 30 V \sim /_{\text{---}}$					220 V	

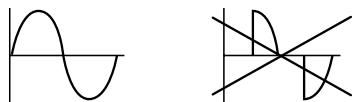
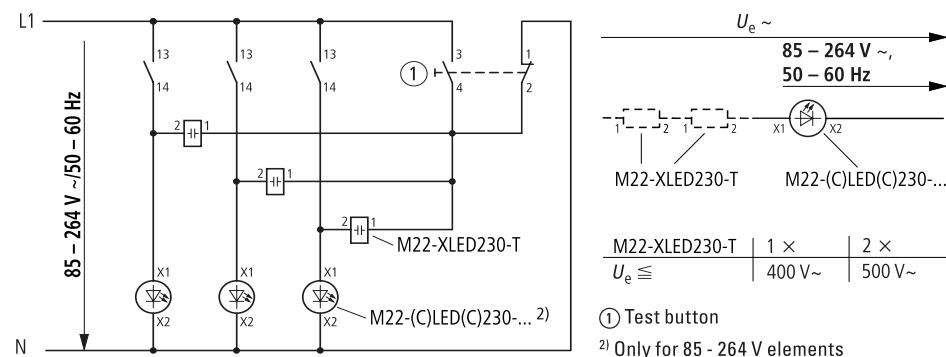
Annotations: M22-XLED60/M22-XLED220, M22-(C)LED(C)-...

LED test element

M22-XLED-T



M22-XLED230-T



Technical data

	Contact elements			Double contact elements	LED elements	
	M22-(C)K...	M22-FK...	M22-CK20/02/11	M22(C)-LED...	M22-FLED...	
General						
Standards		IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1	
Lifespan, mechanical	Operations	x 10 ⁶	5	1	—	—
Operating frequency	Operations/h		≤ 3600	≤ 3600	≤ 3600	—
Operating force	N		5	4.5	10	—
Operating torque (screw terminals)	Nm		0.8	—	—	0.8
Degree of protection (IEC/EN 60529)			IP20	IP20	IP20	IP20
Climatic proofing						
			Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30			
Ambient air temperature, open	°C		-25 - +70	-25 - +70	-25 - +70	-25 - +70
Mounting position			Any	Any	Any	Any
Mechanical shock resistance as defined in IEC 60068-2-27 Shock duration: 11 ms, half sine shock	g		30	50	30	50
Terminal capacities						
Solid	mm ²		0.75 - 2.5	2 x 1 (0.2 - 1.5) 2 x 1 (0.75 - 1.5) ¹⁾	0.5 - 1.5	0.75 - 2.5 1 x 1 (0.2 - 1.5) 1 x 1 (0.75 - 1.5) ¹⁾
Stranded	mm ²		0.5 - 2.5	—	0.5 - 1.5	0.5 - 2.5
Flexible with ferrule	mm ²		0.5 - 1.5	2 x 1 (0.25 - 1) ²⁾	0.5 - 1.5	— 1 x 1 (0.25 - 1) ²⁾
Contacts						
Rated impulse withstand voltage	U _{imp}	V AC	6000	4000	6000	4000
Rated insulation voltage	U _i	V	500	250	500	250
Overvoltage category/degree of pollution			III/3	III/3	III/3	III/3
Control circuit reliability						
At 24 V DC/5 mA	H _F	Failure rate	< 10 ⁻⁷ (i.e., one failure every 10 ⁷ operations)	—	—	—
At 5 V DC/1 mA	H _F	Failure rate	< 5 x 10 ⁻⁶ (i.e., one failure every 5 x 10 ⁸ operations)	—	—	—
Max. short-circuit protective device						
Fuseless		Part no.	PKZM0-10/FAZ-B6/1	FAZ-B4	—	—
Fuse	gG/gL	A	10	4	—	—
Switching capacity						
Rated operational current						
AC-15	24 V	I _e	A	—	4	—
	60 V	I _e	A	—	4	—
	100 V	I _e	A	—	2	—
	115 V	I _e	A	6	—	—
	230 V	I _e	A	6	1.5	—
	400 V	I _e	A	4	—	—
	500 V	I _e	A	2	—	—
DC-13	24 V	I _e	A	3	1.5	—
	42 V	I _e	A	1.7	—	—
	60 V	I _e	A	1.2	0.8	—
	110 V	I _e	A	0.6 (M22-CK...: 0.8)	0.4	—
	220 V	I _e	A	0.3	0.2	—
Lifespan, electrical						
AC-15	230 V/0.5 A	Operations	x 10 ⁶	1.6	—	—
	230 V/1.0 A	Operations	x 10 ⁶	1	—	—
	230 V/3.0 A	Operations	x 10 ⁶	0.7	—	—
DC-13	12 V/2.8 A	Operations	x 10 ⁶	1.2	—	—

Notes¹⁾ Can be plugged without tools²⁾ Use WAGO Variocrimp 4 crimping tool; please enquire for others

	AS-Interface connection for RMQ-Titan	Adapter element for RMQ-Titan	
	RMQ-M1C-ASI	M22-ASI	M22-ASI-C
General			
Standards	EN 50081-1 EN 50082-1	IEC/EN 60947, DIN EN 50 295	IEC/EN 60947, DIN EN 50 295
Radio interference suppression	EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022
Limit value class	A	–	–
Degree of protection	IP20	IP20	IP00
Climatic proofing	Damp heat, constant as defined in IEC 60068-2-78; Damp heat, cyclic as defined in IEC 60068-2-30		
Ambient temperature, open	°C +25 - +55	+25 - +55	+25 - +55
Mechanical shock resistance for a shock duration of 11 ms	g > 30	> 30	> 30
Vibrations as per IEC 60068-2-27 (amplitude: 1 mm)	Hz 10 - 55	–	–
Dimensions (W x H x D)	mm 92 x 46 x 30	–	–
Weight	kg 0.1	–	–
Mounting	RMQ-Titan front mounting		
Mounting position	Any		
Power supply			
Rated operating voltage as per AS-Interface specifications	V DC 26.5 - 31.6	26.5 - 31.6	26.5 - 31.6
Terminal type	–	Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply	Completely from the AS-Interface cable	Completely from the AS-Interface cable	Completely from the AS-Interface cable
Address setting	Via AS-Interface cable connection	Via AS-Interface cable connection	Via AS-Interface cable connection
Total AS-Interface current draw	mA –	≤ 40	≤ 40
AS-Interface	Protected against polarity reversal		
Rated operational current at full load	mA 120	–	–
Rated operational current when idle (no I, O set)	mA Normally 30	–	–
LED status indicators	AS-Interface voltage: green LED		AS-Interface POWER line: green LED on element rear AS-Interface ERROR, AS-Interface master failure: red LED on element rear
Inputs			
Inputs; short-circuit proof	Qty. 4 (1 internal + 3 external)	2 (normally 22 V/5 mA)	2 (normally 22 V/5 mA)
Voltage range	V DC 24 - 30	–	–
Operating current per input	mA Normally 3.5	–	–
Switching level, HIGH signal	V ≥ 15	–	–
LOW signal	mA –	–	–
Length of connecting cables	cm ≤ 200	–	–
Outputs			
Outputs, short-circuit proof	Qty. 4 (1 internal + 3 external)	1 (normally 19 V/8 mA)	1 (normally 19 V/8 mA)
Voltage range	V DC 24 V DC (+10/-15%)	–	–
Max. current carrying capacity			
All outputs	–	–	–
Sum 3 external outputs	60	–	–
Length of connecting cables	cm ≤ 200	–	–
Profile	S-7.0	S-3.A.E	S-3.A.E
Specification	2.0	2.1	2.1
Addresses	Qty. 31	62	62

	M22-ASI-S	M22-ASI-CS
Emergency stop connections		
AS-Interface cable connection	Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply	Completely from the AS-Interface, cable, 26.5 - 31.6 V DC	Completely from the AS-Interface, cable, 26.5 - 31.6 V DC
Mounting	RMQ-Titan front mounting	RMQ-Titan base mounting
Address setting	Via AS-Interface cable	Via AS-Interface cable
Max. total current	mA 45	45
Ambient air temperature	°C -25 - +55	-25 - +55
Mechanical shock resistance	30 g/11 ms as defined in IEC 60068-2-27	30 g/11 ms as defined in IEC 60068-2-27
Degree of protection	IP20	IP00
Climatic proofing	Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30	Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30
Mounting position	Any	Any
Standards	EN 50178 EN 50295	EN 50178 EN 50295
Inputs	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)
Outputs	1 output, normally 19 V/8 mA, short-circuit proof	1 output, normally 19 V/8 mA, short-circuit proof
Status indicators		
AS-Interface POWER cable	Green LED on rear	Green LED on rear
AS-Interface ERROR, AS-Interface master failure	Red LED on rear	Red LED on rear
Profile	S-7.B.E	S-7.B.E

UL File No. 29184	Pilot duty	General use	Wire gauges
Rating data for UL/CSA-listed models			
RMQ16 contact elements			
E 10	C 300, Q 300		Cu cable
E01	C 300, R 300		Min. AWG 18, Max. AWG 14
RMQ-Titan contact elements			
M22-K...	A 600, Q 300, > 300 V AC	10 A - 600 V AC 1 A - 250 V DC	2 x 14 ... 18 AWG 2 x 12 ... 22 AWG
M22-CK...	same polarity		
RMQ-Titan LED elements			
M22-LED...			2 x 14 ... 18 AWG
M22-CLED...			2 x 12 ... 22 AWG
M22-LCH(H)			2 x 16 ... 20 AWG
M22-AMC			2 x 16 ... 20 AWG

	UL 508 requirements	NEMA recommendation
	UL 4X	NEMA 13
RMQ-Titan degrees of protection		
All front elements	M22(S)... ✓	✓
Add-on legend plates	M22S-ST... ✓	✓
Emergency stop legend plates	M22-XAK... ✓ M22-XZK... ✓ M22-XBK... ✓ M22-XYK... ✓	✓ ✓ ✓ ✓
Foot and palm switches	FAK... ✓	✓

M22-SWD-K11 M22-SWD-KC11 M22-SWD-LED-...

General		M22-SWD-K11	M22-SWD-KC11	M22-SWD-LED-...
Standards		IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)	mm	12 x 42 x 39	12 x 45 x 37	10 x 42 x 45
Weight	g	10	10	10
Mounting position		Any		
Ambient mechanical conditions				
Degree of protection (IEC/EN 60529)		IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)				
Constant amplitude of 3.5 mm	Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g	Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27), half sine shock: 15 g/11 ms	Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	50
Free fall, packaged (IEC/EN 60068-2-32)	m	0.3	0.3	0.3
Electromagnetic compatibility (EMC)				
Overtoltage category		Not applicable		
Pollution degree		2	2	2
Electrostatic discharge (IEC/EN 61131-2:2008)				
Air discharge (level 3)	kV	8	8	8
Contact discharge (level 2)	kV	4	4	4
Electromagnetic fields (IEC/EN 61131-2:2008)				
80 - 1000 MHz	V/m	10	10	10
1.4 - 2 GHz	V/m	3	3	3
2 - 2.7 GHz	V/m	1	1	1
Radio interference suppression (SmartWire-DT)		EN 55011 Class A		
Burst (IEC/EN 61131-2:2008, level 3)				
Supply cables	kV	2	2	2
SmartWire-DT cables	kV	1	1	1
Radiated RFI (IEC/EN 61131-2:2008, level 3)	V	10	10	10
Ambient climatic conditions				
Operating ambient temperature (IEC 60068-2)	°C	-30 - +55	-30 - +55	-30 - +55
Condensation		Must be prevented with suitable measures		
Storage	°C	-40 - 80	-40 - 80	-40 - 80
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	9 - 95	9 - 95	9 - 95
SmartWire-DT network				
Module type		SmartWire-DT module (slave)		
Baud rate setting		Automatic		
SmartWire-DT status LED		Green		
Connections		Pin header, 8-pin		
Plug connector		SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5
Number of insertion cycles		50	50	50
Function element				
Contacts		1 changeover contact	1 changeover contact	–
Lifespan, mechanical/electrical	Operations	1×10^6	1×10^6	–
LED indicator		No	No	Yes
Diagnostics		Yes	Yes	No
Mounting		Front mounting	Base mounting	Front mounting

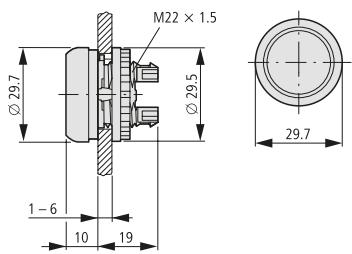
M22-SWD-LEDC-...	M22-SWD-K11LED-...	M22-SWD-K11LEDC-...	M22-SWD-K22	M22-SWD-KC22	M22-SWD-K22LED-...	M22-SWD-K22LEDC-...
IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178
10 x 45 x 42	12 x 42 x 45	12 x 45 x 42	17 x 42 x 39	17 x 45 x 37	17 x 42 x 45	17 x 45 x 42
10	10	10	14	14	14	14
Any						
IP20	IP20	IP20	IP20	IP20	IP20	IP20
5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4
8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150
9	9	9	9	9	9	9
50	50	50	50	50	50	50
0.3	0.3	0.3	0.3	0.3	0.3	0.3
Not applicable						
2	2	2	2	2	2	2
8	8	8	8	8	8	8
4	4	4	4	4	4	4
10	10	10	10	10	10	10
3	3	3	3	3	3	3
1	1	1	1	1	1	1
EN 55011 Class A						
2	2	2	2	2	2	2
1	1	1	1	1	1	1
10	10	10	10	10	10	10
-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55
Must be prevented with suitable measures						
-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80
9 - 95	9 - 95	9 - 95	5 - 95	5 - 95	5 - 95	5 - 95
SmartWire-DT module (slave)						
Automatic						
Green						
Pin header, 8-pin						
M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP
50	50	50	50	50	50	50
–	1 changeover contact	1 changeover contact	2 changeover contacts	2 changeover contacts	2 changeover contacts	2 changeover contacts
–	1 x 10 ⁶					
Yes	Yes	Yes	No	No	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
Base mounting	Front mounting	Base mounting	Front mounting	Base mounting	Front mounting	Base mounting

		SWD4-RC8-10	SWD4-8SF2-5	SWD4-8SFF2-5
General				
Standards		IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)	mm	48.5 x 34.5 x 10	15 x 36.5 x 17.5	48.5 x 34.5 x 10
Weight	g	10	5.5	4.5
Mounting position		Any	Any	Any
Ambient mechanical conditions				
Degree of protection (IEC/EN 60529)		IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)				
Constant amplitude of 3.5 mm	Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g	Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) half sine shock: 15 g/11 ms	Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	—
Free fall, packaged (IEC/EN 60068-2-32)	m	0.3	—	—
Electromagnetic compatibility (EMC)				
Overvoltage category		II	—	—
Pollution degree		2	—	—
Electrostatic discharge (IEC/EN 61131-2:2008)				
Air discharge (level 3)	kV	8	—	8
Contact discharge (level 2)	kV	4	—	4
Electromagnetic fields (IEC/EN 61131-2:2008)				
80 - 1000 MHz	V/m	10	—	—
1.4 - 2 GHz	V/m	3	—	—
2 - 2.7 GHz	V/m	1	—	—
Radio interference suppression (SmartWire-DT)		EN 55011 Class A	—	—
Burst (IEC/EN 61131-2:2008, level 3)				
SmartWire-DT cables	kV	1	—	—
Radiated RFI (IEC/EN 61131-2:2008, level 3)	V	10	—	—
Ambient climatic conditions				
Operating ambient temperature (IEC 60068-2)	°C	-25 - +55	-25 - +55	-25 - +55
Condensation		Must be prevented with suitable measures		
Storage	°C	-40 - 70	-40 - 70	-40 - 70
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	5 - 95	5 - 95	5 - 95
Connection options				
SWD In		Pin header, 8-pin	Male connector	Pin header, 8-pin
Number of insertion cycles		≥ 200	1	≥ 200
SWD Out		—	Socket, 8-pin	Pin header, 8-pin
Number of insertion cycles		—	≥ 200	≥ 200

SWD4-SF8-20	SWD4-SM8-20	SWD4-8FRF-10	SWD4-SFL8-20	SWD4-SML8-20
IEC/EN 61131-2 EN 50178				
24 x 26 x 162	24 x 26 x 170	35 x 90 x 35	35 x 83 x 40	35 x 83 x 46
20	22.5	42	50	50
Any	Any	Any	Any	Any
IP67	IP67	IP20	IP67	IP67
		5 - 8.4	5 - 8.4	5 - 8.4
		8.4 - 150	8.4 - 150	8.4 - 150
-	-	9	9	9
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	8	8	8
-	-	4	4	4
-	-	-	10	10
-	-	-	-	-
-	-	-	10	10
-25 - +55	-25 - +55	-25 - +55	-25 - +55	-25 - +55
Must be prevented with suitable measures				
-40 - 70	-40 - 70	-40 - 70	-40 - 70	-40 - 70
5 - 95	5 - 95	5 - 95	5 - 95	5 - 95
-	Plug, 8-pin	Pin header, 8-pin	Pin header, 8-pin	Plug, 8-pin
-	≥ 500	≥ 200	≥ 200	≥ 500
Socket, 8-pin	-	Push-in terminals	Socket, 8-pin	Pin header, 8-pin
≥ 500	-	-	≥ 500	≥ 200

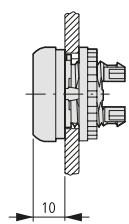
Dimensions

Pilot device elements

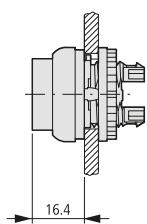


RMQ-Titan pushbuttons

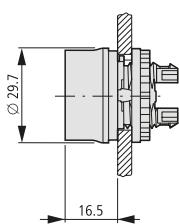
M22...-D...



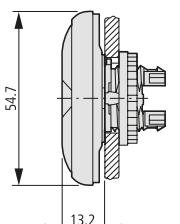
M22...-DH...



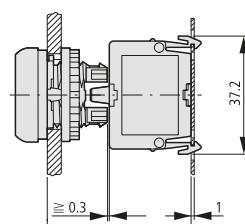
M22-DG(L)...



M22...-DD...

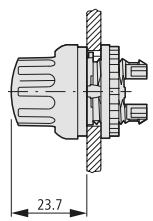


M22-D pushbuttons with base mounting

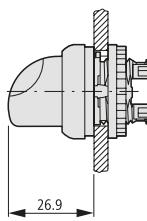


RMQ-Titan selector switches

M22-W...



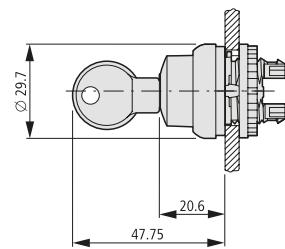
M22...-W(K)L...



RMQ-Titan key-operated buttons

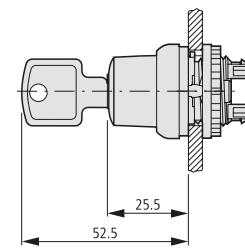
Individual lock mechanism

M22...-W(R)S...



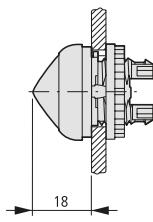
Master key systems

M22...-W...-S-SA...

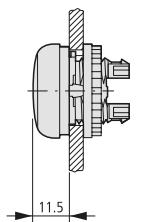


RMQ-Titan indicator lights

M22-LH...

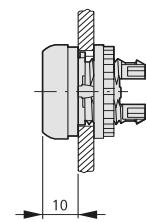


M22-L...

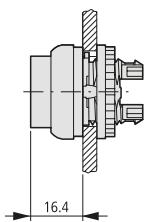


RMQ-Titan illuminated pushbutton actuators

M22...-DL...

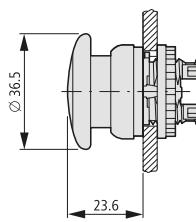
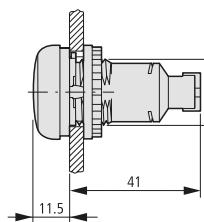


M22...-DLH...

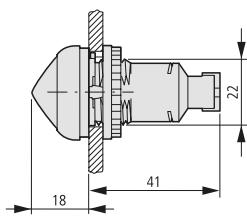


RMQ-Titan mushroom pushbuttons

M22...-DP...

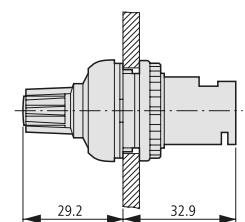
Compact indicator lights
Compact acoustic devicesM22-LC-...
M22-AM...

M22-LCH...



Potentiometers

M22...-R.K



Controlled stop/emergency stop buttons

Mushroom-shaped

M22-PV...

M22S-PV...

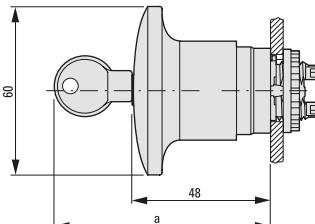
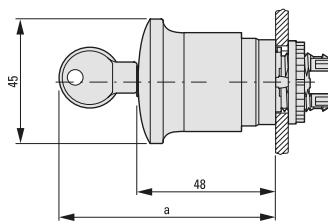
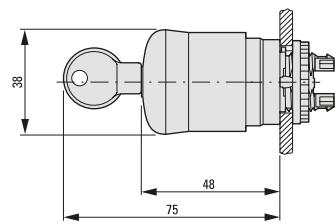
M22-PVL...

M22-PVS...

Palm shaped

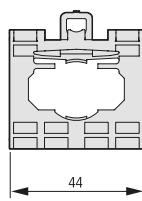
M22-PV...45...

M22-PV...60...

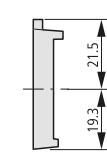
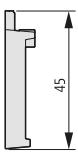
**Front mounting (style: flush mounting)**

Mounting adapters

M22-A4

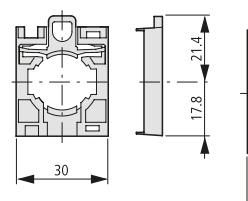


M22-A

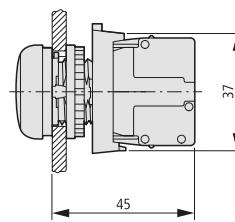
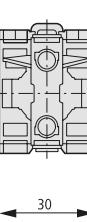
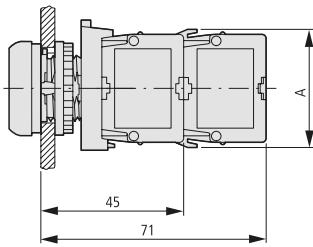
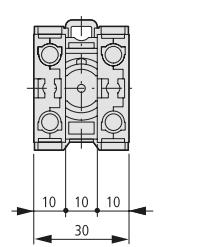
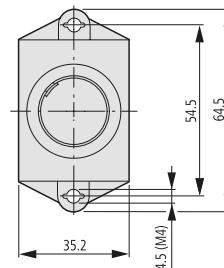
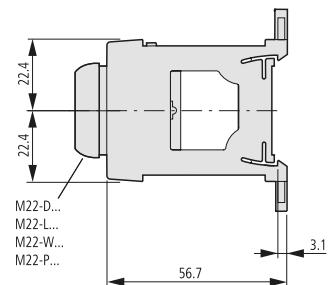


Centering adapter

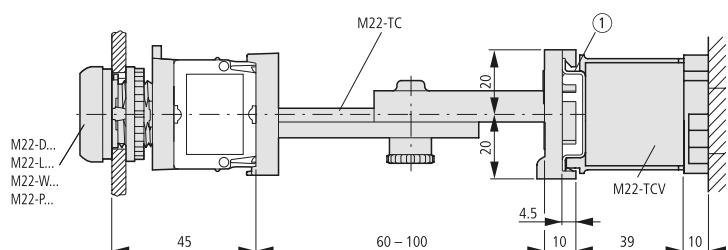
M22-ZA



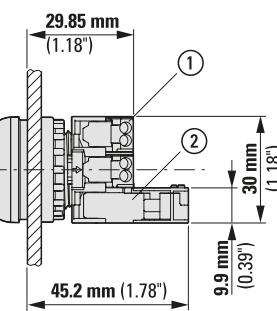
RMQ-Titan indicator lights

**Buttons with M22-(C)K...****Buttons with M22-(C) LED... + M22-XLED...****IVS top-hat rail adapter**

	1 x M22-K...	2 x M22-K...	1 x M22-CK...	2 x M22-CK...
A	37.2	37.2	39	39

Pushbuttons, indicator lights with M22-TC telescopic clip and M22-TCV extension

① IEC/EN 60715 DIN-rail

Pushbuttons with Flat Rear contact element ①**Pushbuttons with standard contact element ②**

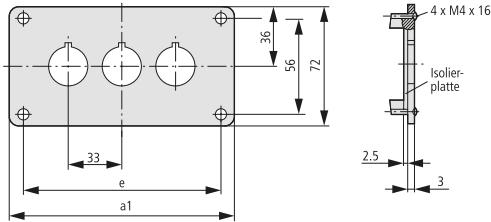
① M22-FK10(01)

② M22-(C)K...

Front mounting (style: flush mounting)

RMQ-Titan mounting plates

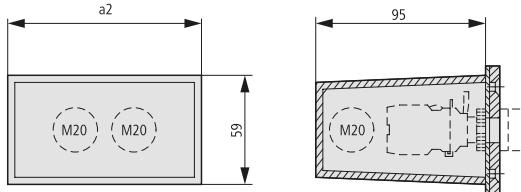
M22-E...



Part no.	a1	e
M22-E(Y)1	72	56
M22-E2	105	89
M22-E3	138	122
M22-E4	171	155
M22-E5	204	188
M22-E6	237	221

Shrouds

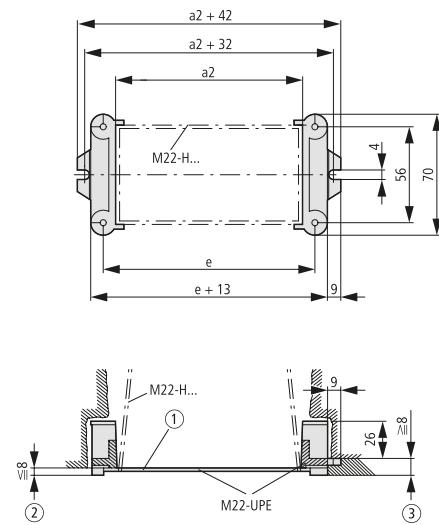
M22-H...



Part no.	a2	Cable entry	Design
M22-H1	42	3 x M20	One-piece
M22-H2	75	4 x M20	
M22-H3	108	4 x M20	
M22-H4	141	4 x M20	Split
M22-H5	174	5 x M20	
M22-HE6	207	6 x M20	

Shroud with plaster keys

M22-UPE

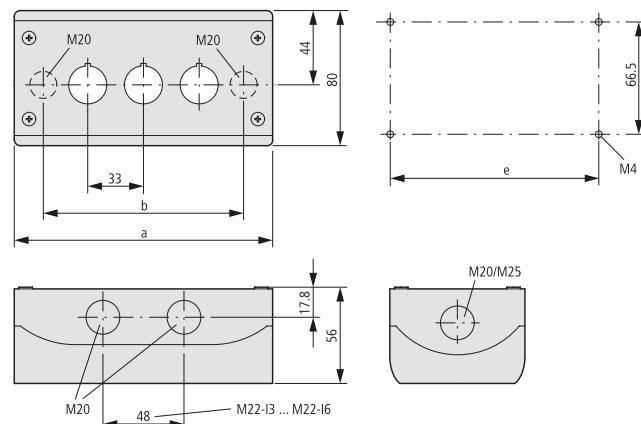


- (1) Box for proper plasterboard mounting
- (2) Plaster thickness of less than 8 mm
- (3) Plaster thickness of more than 8 mm

Base mounting (style: surface mounting)

RMQ-Titan surface mounting enclosures

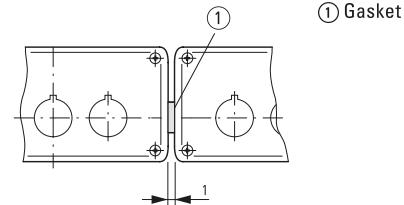
M22-I...

**Part no. Mounting locations a b e Cable entries**

Part no.	Mounting locations	a	b	e	Cable entries
M22-I(Y)1	1	72	42.6	58.5	2 x M16 3 x M20 2 x M25
M22-I2	2	120	85.6	106.5	2 x M20 3 x M20 2 x M25
M22-I3	3	153	118.6	139.5	2 x M20 2 x M25 4 x M20
M22-I4	4	186	151.6	172.5	2 x M20 2 x M25 4 x M20
M22-I6	6	252	217.6	238.5	2 x M20 2 x M25 4 x M20

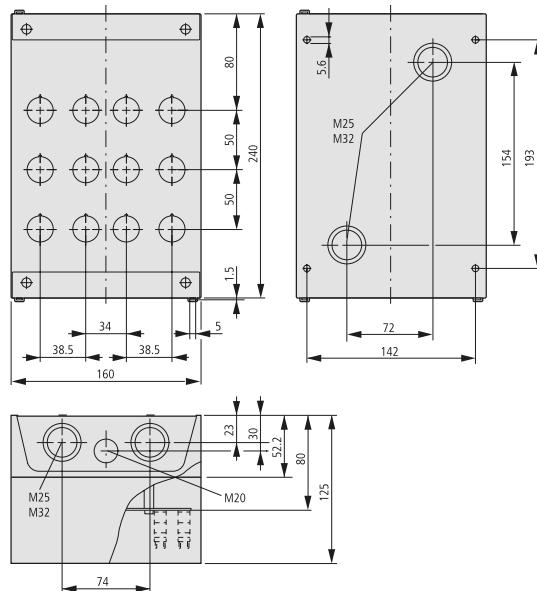
Combination of surface mounting enclosures

M22-XI



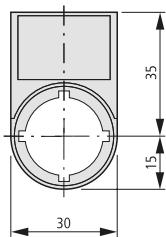
Surface mounting enclosure for 12 mounting locations

M22-I12

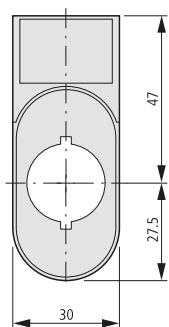
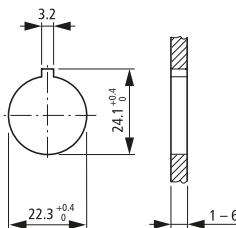
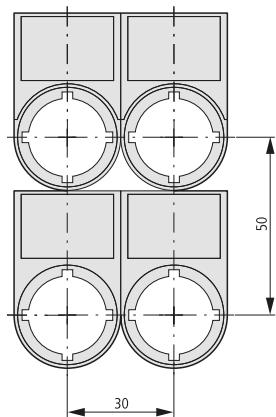
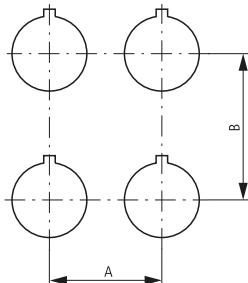


Legend holders

M22S-ST...

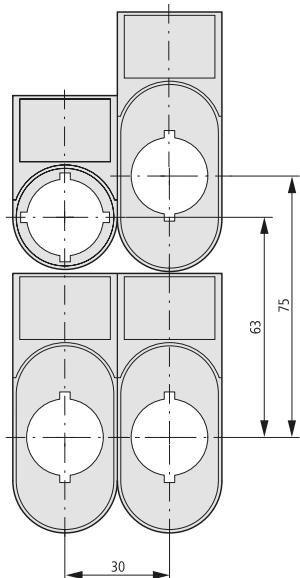


M22S-STDD-X

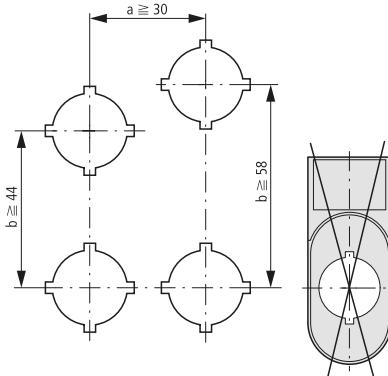
**Mounting hole with key slot for M22..., C22...**Grid dimensions as defined
in IEC/EN 60947Grid dimensions for
various combinationsPushbutton diaphragm cannot
be combined with label mount

Part no.	A ≥	B ≥
	mm	mm
M22(N/O)…(IEC/EN 60947)	30	50
RMQ-Titan min.	30	40
M22-D... + M22-T-D	33	40
M22-D(R)P...	38	40
M22-PV...	45	45
M22-PV..45	55	55
M22-PV..60	70	70
M22-PV(L) + M22-PL-PV	48	56
M22-PV(L)(N/O...) + M22-D...	33	40
M22-DDL...	30	55
M22-DDL... + M22-T-DD	33	58
M22-ST...	30	50
M22-STDD...	30	75
M22-CK...	30	45
M22-CLED...	30	45
M22-XAK...	90	90
M22-XZK...	33	52
M22-XBK...	60	60
M22-XYK...	50	50
M22-D4	60	60
M22-WR...4	50	50
M22-W...J4	100	100

Grid dimensions for M22-DD...



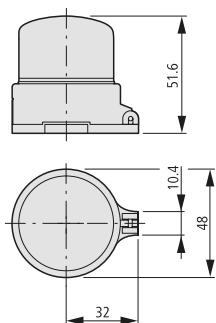
Grid dimensions for M22-DDL

M22-T-DD pushbutton
diaphragm
Pushbutton diaphragm cannot
be combined with label mount

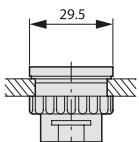
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Emergency stop sealable shroud

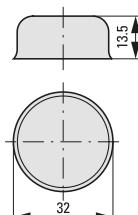
M22-PL-PV

**Blanking plug**

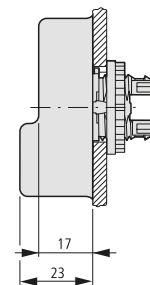
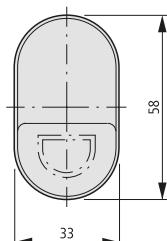
M22...B-...

**Pushbutton diaphragms**

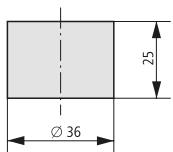
M22-T-D



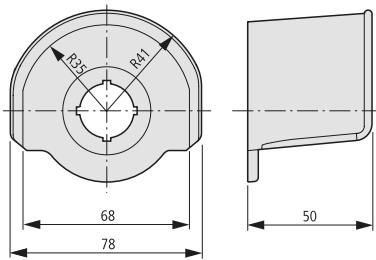
M22-T-D

**Guard rings**

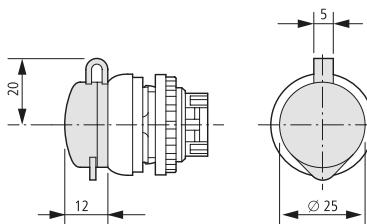
M22-XGWK



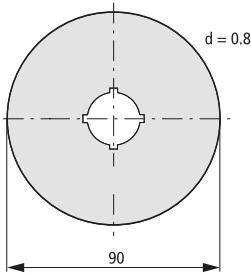
M22-XGPV

**Protective diaphragm**

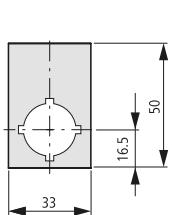
M22-XWS

**Controlled stop legend plates**

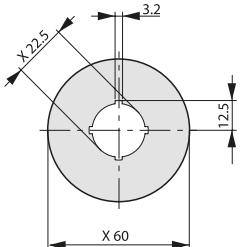
M22-XAK...



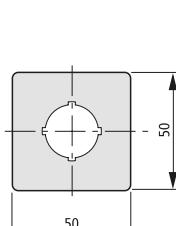
M22-X(Y)ZK...



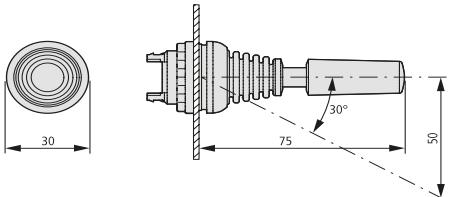
M22-XBK-...



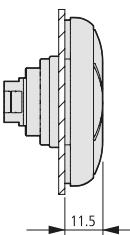
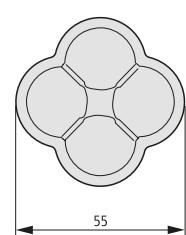
M22-XYK-...

**Joysticks**

M22...-W...J...

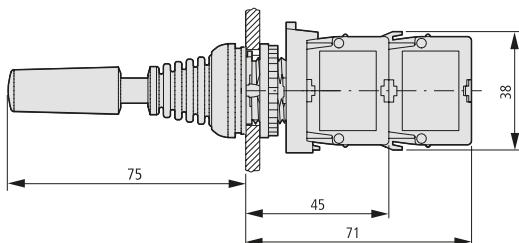
**4-way pushbuttons**

M22-D...4...

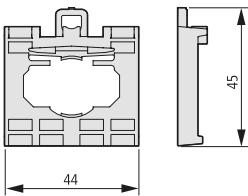
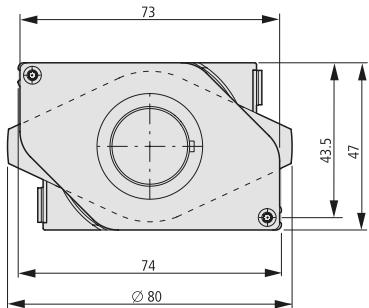
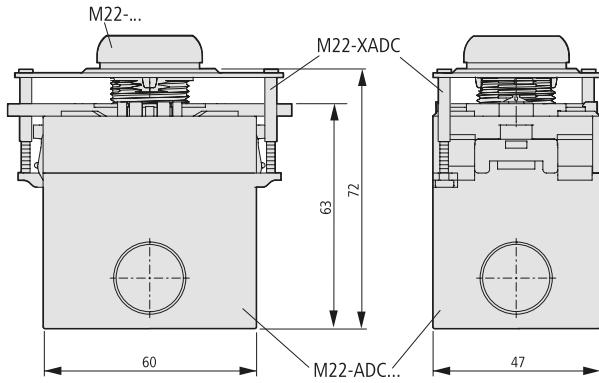


Joysticks

M22-WJ..., M22-WRJ...

**Mounting adapter**

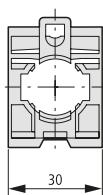
M22-A4

**Dust covers**

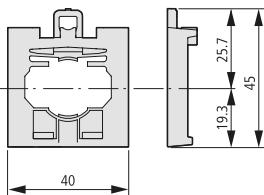
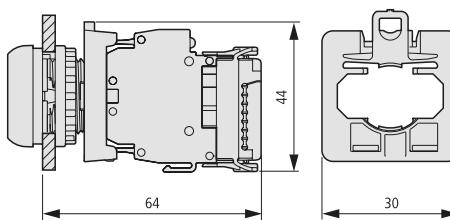
1

Mounting adapters (front mounting) for 3 contact/LED elements

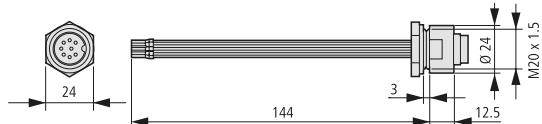
M22-A



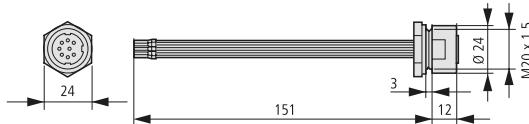
M22-SWD-A4

**Function elements**M22-SWD-K...
M22-SWD-LED...**Housing bushing plug**

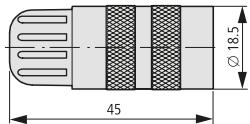
SWD4-SM8-20

**Housing bushing socket**

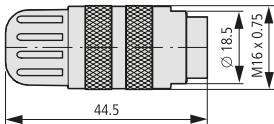
SWD4-SF8-20

**Plug connector for SmartWire-DT round cable, straight**

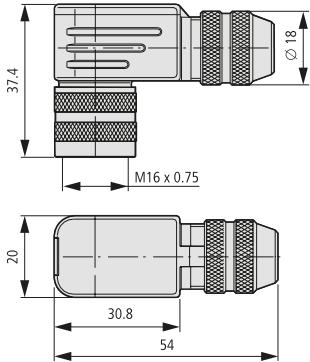
SWD4-SF8-67



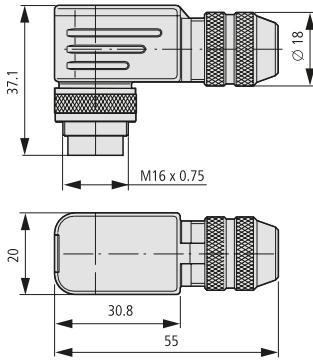
SWD4-SM8-67

**Plug connector for SmartWire-DT round cable, right angle**

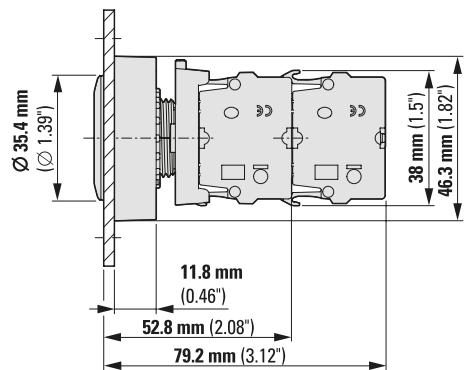
SWD4-SF8-67W



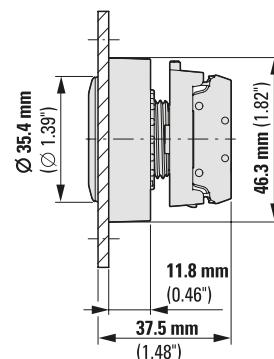
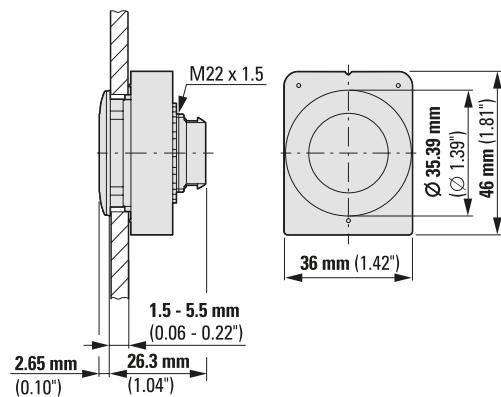
SWD4-SM8-67W



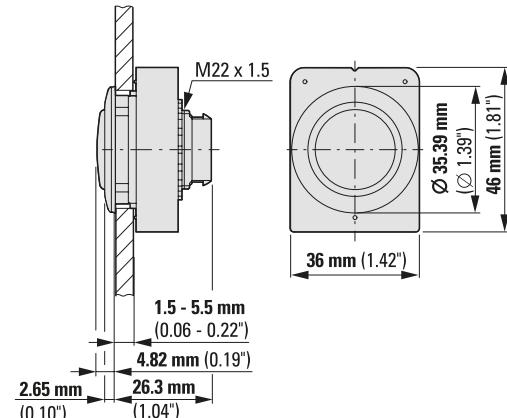
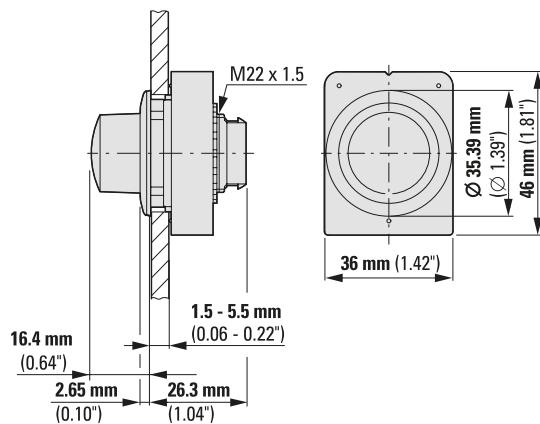
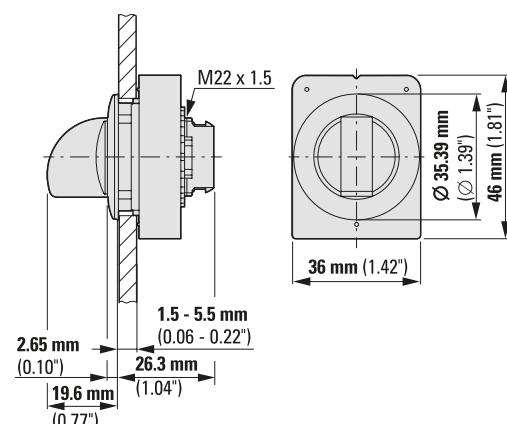
M30.... with 2 M22-K... standard contact elements



M30.... with M22-FK... Flat Rear contact elements

**Pushbuttons, blanking plug**M30C-FD...
M30C-FB**Indicator lights**

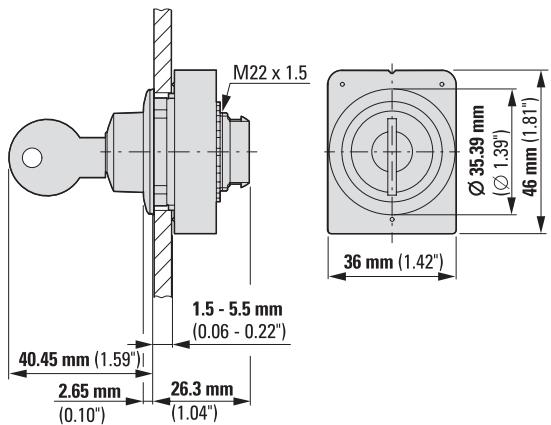
M30C-FL...

**Selector switches**With rotary head
M30C-FW...**(Illuminated) selector switches**With thumb-grip, 4-way
M30C-FW(L)K(V)-...

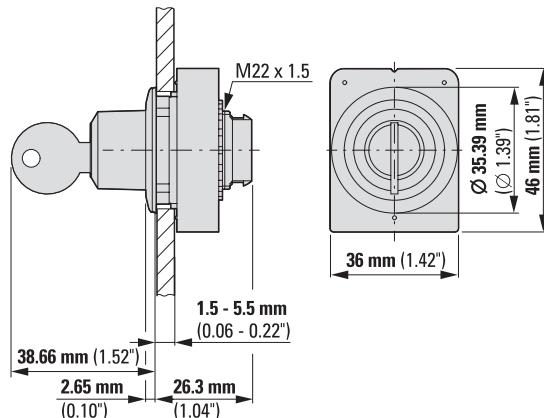
1

Key-operated buttons

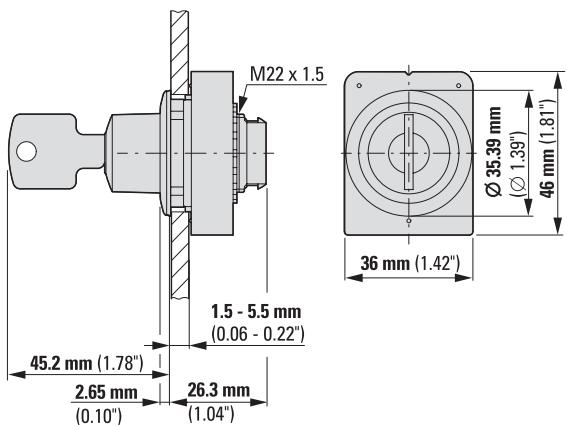
M30C-FW(R)S(3)-MS...



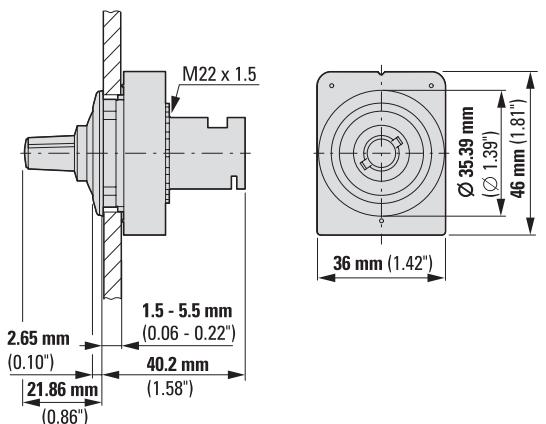
M30C-FW(R)S(3)-RS...

**Key-operated buttons**

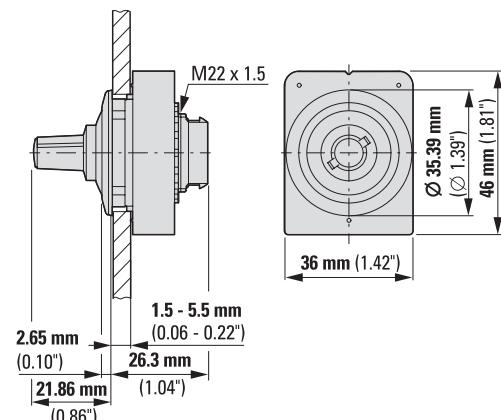
M30C-FW(R)S(3)-SA...

**Potentiometers**

M30C-FR...

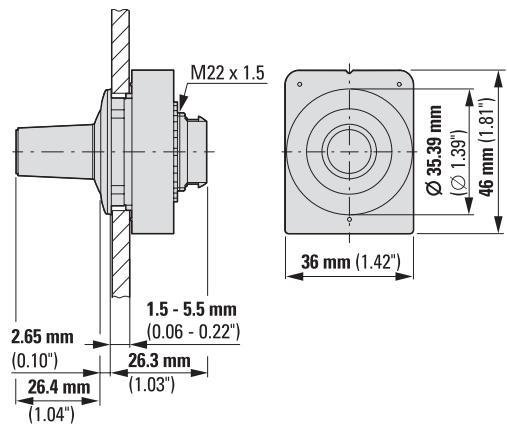
**Potentiometers, SmartWire-DT**

M30C-FR-SWD

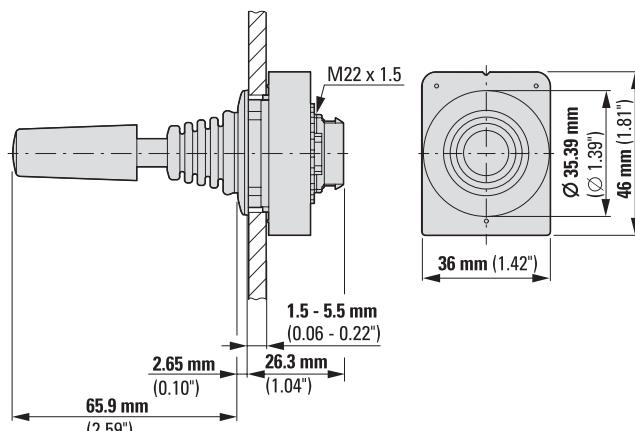
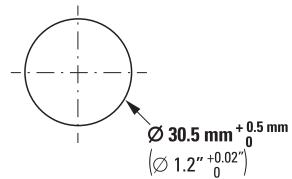
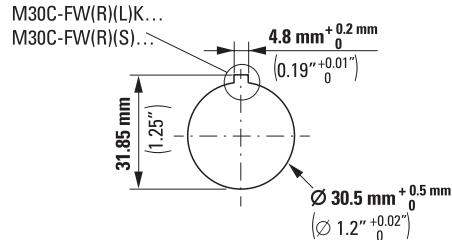
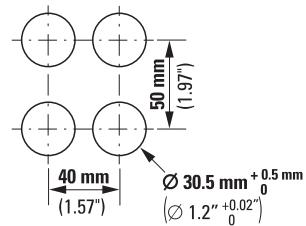


Encoders, SmartWire-DT

M30C-FINC-SWD

**Joysticks**

M30C-FW(R)JS...

**Mounting hole without key slot****Mounting hole with key slot****Grid dimensions for various combinations**

Build it in.



RMQ *compact* solution Simple. Reliable. Compact.



Download the brochure
by visiting the product page
www.eaton.eu/RMQcompact

The C22 and C30 RMQ *compact* solution series combine connection cables with or without a plug connection together with signaling and operator elements into a single device. This turns them into an all-in-one solution that provides full protection against dust, fine foreign particles, and liquids, for example. Thanks to a high degree of protection of up to IP69K in the front and IP65 in the back, these devices are perfect for direct installation in applications such as woodworking machines and similar machine tools.

RMQ *compact* solution devices feature a sleek design that enhances machines, systems, and a broad range of additional applications. Whether you decide on our traditional C22 design or on the flush C30 version, you can rest assured knowing that we have a solution for every application out there.

C20
C30**2.0 RMQ compact solution****2.1 System overview**

C22 – System overview 96

2

2.2 Product selection

C22 – Controlled stop/emergency-stop buttons 98

C22 – Pushbuttons 99

C22 – Selector switches 102

C22 – Key-operated buttons 104

C22 – Indicator lights 106

C22 – Illuminated pushbutton actuators 108

C22 – Illuminated pushbutton actuators, accessories 109

2.3 System overview

C30 – System overview 110

2.4 Product selection

C30 – Pushbuttons 111

C30 – Indicator lights 113

C30 – Illuminated pushbutton actuators, accessories 114

2.5 Technical data

C22/C30 – Technical data 115

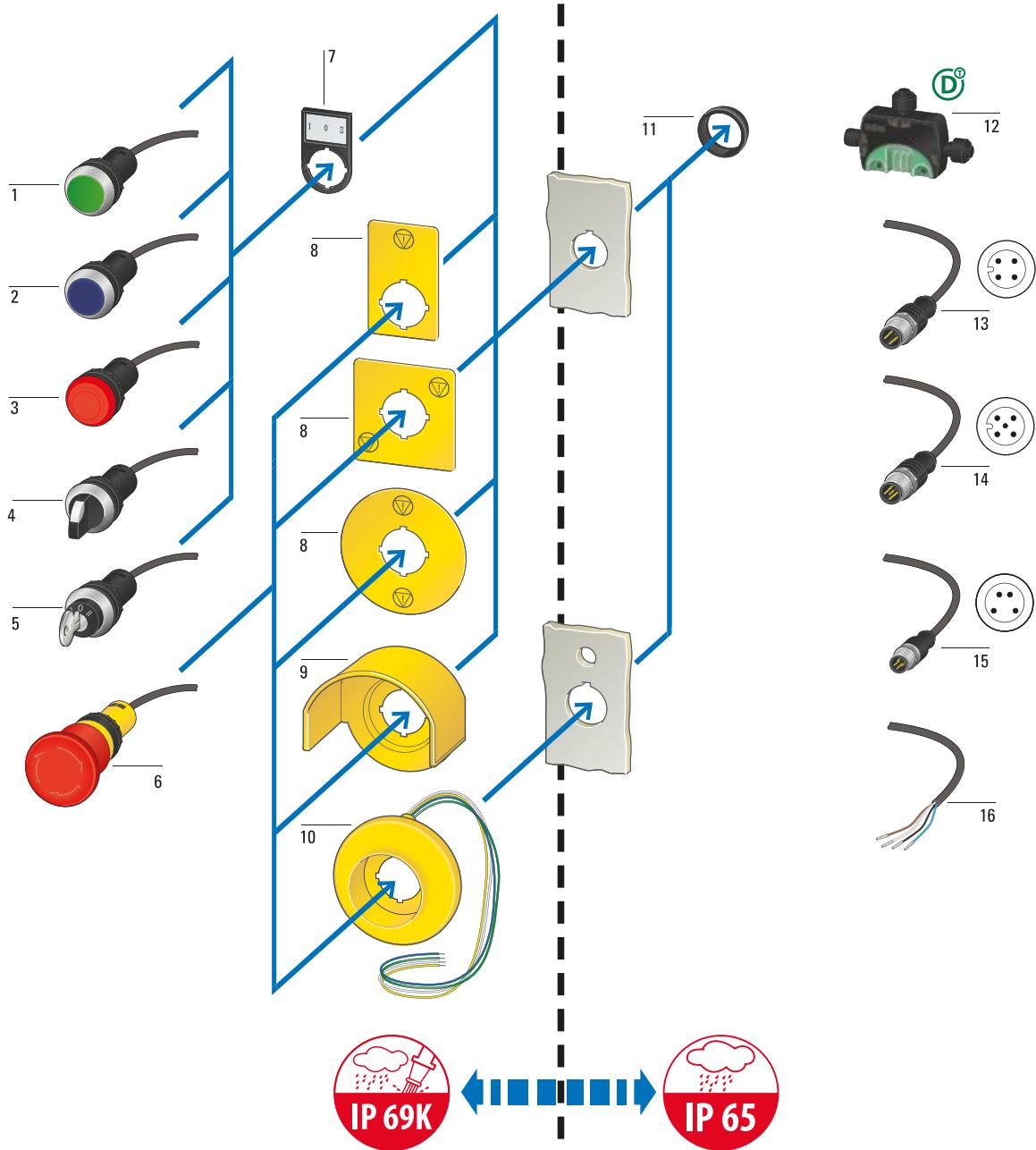
2.6 Dimensions

C22 – Dimensions 116

C30 – Dimensions 120

System overview

2



C22 pushbuttons	1
Momentary and maintained	
Flush	
Colors: white, green, red, black	
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
→ Page 99	
C22 illuminated pushbutton actuators	2
Momentary and maintained	
Flush	
Colors: white, green, red, blue, yellow	
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
24 V AC/DC	
→ Page 108	
C22 indicator lights	3
Flush	
Colors: white, green, red, blue, yellow	
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
24 V AC/DC	
→ Page 106	
C22 selector switches	4
Momentary and maintained	
Flush	
With thumb-grip	
2 or 3 positions	
With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
→ Page 102	
C22 key-operated buttons	5
Momentary and maintained	
Flush	
2 or 3 positions	
With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
→ Page 103	
C22 controlled stop/emergency-stop buttons	6
Flush	
38 mm and 45 mm diameter	
Mushroom or palm	
Twist or pull release	
Tamper-proof as defined in ISO 13850/EN 418	
European Machinery Safety Directive 2006/42/EC	
With cable (0.2/1/3.5 m) and plug (M12A, 5 pole) or unterminated cable end (4 pole)	
→ Page 98	
Label mounts	7
For insert labels	
Color: black	
Insert labels: aluminum color, with inscription or blank, suitable for engraving	
→ Page 16	
Controlled STOP legend plates, IP66	8
Color: yellow, with black lettering	
Round, rectangular, or square	
With controlled stop inscription or controlled stop symbol	
→ Page 17	
Guard rings	9
For preventing unintended actuation	
For 38 mm and 45 mm designs	
→ Page 16	
Illuminated rings	10
Versions:	
24 V AC/DC, 120 V AC, 230 V AC	
Continuous light	
Flashing light with separate driver	
Chaser light with separate driver, 24 V AC/DC	
With three LED rows that can be driven separately	
→ Page 16	
Threaded rings	11
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SmartWire-DT I/O module	12
For connecting digital input/output signals to SmartWire-DT	
IP67	
Cable with M12A plug, 4 pole	13
Cable with M12A plug, 5 pole	14
Cable with M8 plug, 4 pole	15
Cable end open, 4 pole	16

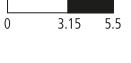
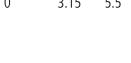
Product selection

2

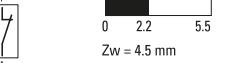
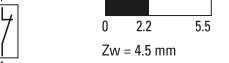
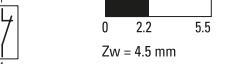
Connection type	Cable length m	Mushroom head	Contact configuration ¹⁾ N/C = Normally closed contact	N/O = Normally open contact	Contact sequence	Contact diagram ²⁾	Part no. Article no.	Std. pack
Controlled stop/emergency switching off buttons								
Non-illuminated Tamper-proof as defined in ISO 13850, EN 418 IP66, IP67, IP69K (at front) IP65 (at rear) Yellow base								
Mushroom-shaped Pull release 38 mm diameter	0.2		2 N/C ⊖				C22-PV-K02-P10 185184	1 unit
						Zw = 4.5 mm		
Mushroom-shaped Pull release 38 mm diameter	1		2 N/C ⊖				C22-PV-K02-P62 185169	1 unit
	3.5					Zw = 4.5 mm	C22-PV-K02-P65 185170	
	1		1 N/C ⊖	1 N/O			C22-PV-K11-P62 185174	
	3.5					Zw = 4.5 mm	C22-PV-K11-P65 185175	
Mushroom-shaped Turn-to-release function 38 mm diameter	1		2 N/C ⊖				C22-PVT-K02-P62 185176	1 unit
	3.5					Zw = 4.5 mm	C22-PVT-K02-P65 185177	
	1		1 N/C ⊖	1 N/O			C22-PVT-K11-P62 185181	
	3.5					Zw = 4.5 mm	C22-PVT-K11-P65 185182	
Palm Turn-to-release function 45 mm diameter	0.2		2 N/C ⊖				C22-PVT45P-K02-P10 185183	1 unit
						Zw = 4.5 mm		
Palm Turn-to-release function 45 mm diameter	1		2 N/C ⊖				C22-PVT45P-K02-P62 185155	1 unit
	3.5					Zw = 4.5 mm	C22-PVT45P-K02-P65 185156	
	1		1 N/C ⊖	1 N/O			C22-PVT45P-K11-P62 185160	
	3.5					Zw = 4.5 mm	C22-PVT45P-K11-P65 185161	
Palm Turn-to-release function 45 mm diameter With mechanical position indicator³⁾	1		2 N/C ⊖				C22-PVT45P-MPI-K02-P62 185162	1 unit
	3.5					Zw = 4.5 mm	C22-PVT45P-MPI-K02-P65 185163	
	1		1 N/C ⊖	1 N/O			C22-PVT45P-MPI-K11-P62 185167	
	3.5					Zw = 4.5 mm	C22-PVT45P-MPI-K11-P65 185168	

Notes

¹⁾ ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence ■ = Contact closed □ = Contact open³⁾ Green switch position indicator → Button not activated

Cable length m	Button plate	Contact configuration ¹⁾ N/O = Normally open contact	Contact sequence ²⁾	Contact diagram	Momentary	Maintained	Std. pack					
					Part no. Article no.	Part no. Article no.						
Cable (black) with M12A plug, 4 pole												
Pushbuttons												
Silver bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush												
0.2		1 N/C ⊖			Zw = 4.5 mm	C22-D-R-K01-P1 185675	C22-DR-R-K01-P1 185684	1 unit				
						C22-D-S-K01-P1 185676	C22-DR-S-K01-P1 185685					
		Without button plate				C22-D-X-K01-P1 185678	C22-DR-X-K01-P1 185687					
						C22-D-G-K10-P1 185674	C22-DR-G-K10-P1 185683					
						C22-D-W-K10-P1 185677	C22-DR-W-K10-P1 185686					
		Without button plate				C22-D-X-K10-P1 185680	C22-DR-X-K10-P1 185689					
0.5		1 N/C ⊖				C22-D-R-K01-P3 181633	C22-DR-R-K01-P3 181611	1 unit				
						C22-D-S-K01-P3 181634	C22-DR-S-K01-P3 181612					
		Without button plate				C22-D-X-K01-P3 181605	C22-DR-X-K01-P3 181614					
						C22-D-G-K10-P3 181632	C22-DR-G-K10-P3 181610					
						C22-D-W-K10-P3 181635	C22-DR-W-K10-P3 181613					
		Without button plate				C22-D-X-K10-P3 181607	C22-DR-X-K10-P3 181616					
1		1 N/C ⊖				C22-D-R-K01-P5 181043	C22-DR-R-K01-P5 181081	1 unit				
						C22-D-S-K01-P5 181045	C22-DR-S-K01-P5 181083					
		Without button plate				C22-D-X-K01-P5 181049	C22-DR-X-K01-P5 181087					
						C22-D-G-K10-P5 181041	C22-DR-G-K10-P5 181079					
						C22-D-W-K10-P5 181047	C22-DR-W-K10-P5 181085					
		Without button plate				C22-D-X-K10-P5 181051	C22-DR-X-K10-P5 181089					

Notes¹⁾ ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence: ■ = Contact closed □ = Contact open

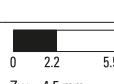
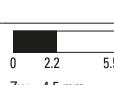
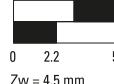
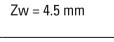
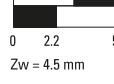
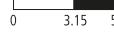
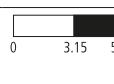
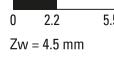
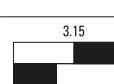
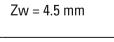
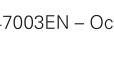
Cable length m	Button plate	Contact configuration ¹⁾	Contact sequence ²⁾	Contact diagram	Momentary	Maintained	Std. pack
					Part no. Article no.	Part no. Article no.	
m		N/O = Normally open contact	N/C = Normally closed contact				
Pushbuttons							
Silver bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush							
0.2		1 N/C ⊖			C22-D-R-K01-P30 185693	C22-DR-R-K01-P30 185702	1 unit
					C22-D-S-K01-P30 185694	C22-DR-S-K01-P30 185703	
					C22-D-X-K01-P30 185696	C22-DR-X-K01-P30 185705	
		1 N/O			C22-D-G-K10-P30 185692	C22-DR-G-K10-P30 185701	
					C22-D-W-K10-P30 185695	C22-DR-W-K10-P30 185704	
					C22-D-X-K10-P30 185698	C22-DR-X-K10-P30 185707	
0.5		1 N/C ⊖			C22-D-R-K01-P31 185635	C22-DR-R-K01-P31 185644	1 unit
					C22-D-S-K01-P31 185636	C22-DR-S-K01-P31 185645	
					C22-D-X-K01-P31 185638	C22-DR-X-K01-P31 185647	
		1 N/O			C22-D-G-K10-P31 185634	C22-DR-G-K10-P31 185643	
					C22-D-W-K10-P31 185637	C22-DR-W-K10-P31 185646	
					C22-D-X-K10-P31 185640	C22-DR-X-K10-P31 185649	
1		1 N/C ⊖			C22-D-R-K01-P32 185653	C22-DR-R-K01-P32 185662	1 unit
					C22-D-S-K01-P32 185654	C22-DR-S-K01-P32 185663	
					C22-D-X-K01-P32 185656	C22-DR-X-K01-P32 185665	
		1 N/O			C22-D-G-K10-P32 185652	C22-DR-G-K10-P32 185661	
					C22-D-W-K10-P32 185655	C22-DR-W-K10-P32 185664	
					C22-D-X-K10-P32 185658	C22-DR-X-K10-P32 185667	

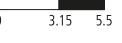
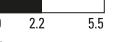
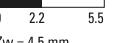
Notes¹⁾ ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence: ■ = Contact closed □ = Contact open

Cable length m	Button plate	Contact configuration ¹⁾ N/O = Normally open contact	Contact sequence ²⁾ N/C = Normally closed contact	Contact diagram	Momentary	Maintained	Std. pack
					Part no. Article no.	Part no. Article no.	

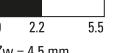
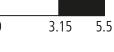
Cable (black) with unterminated end, 4 pole**Pushbuttons**

Silver bezel
IP66, IP67, IP69K (at front), IP65 (at rear)
Flush

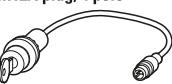
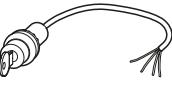
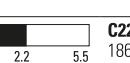
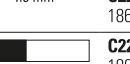
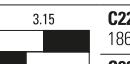
1		1 N/C ⊕		 	 	 	C22-D-R-K01-P62 185671	C22-DR-R-K01-P62 185608	1 unit						
3.5		1 N/C ⊕		 	 	 	C22-D-R-K01-P65 185617	C22-DR-R-K01-P65 185626	1 unit						
		Without button plate													
		Without button plate		 	 	 	C22-D-S-K01-P62 185672	C22-DR-S-K01-P62 185609							
		Without button plate		 	 	 	C22-D-X-K01-P62 185602	C22-DR-X-K01-P62 185611							
		Without button plate		 	 	 	C22-D-X-K02-P62 185603	C22-DR-X-K02-P62 185612							
		Without button plate		 	 	 	C22-D-G-K10-P62 185670	C22-DR-G-K10-P62 185607							
		Without button plate		 	 	 	C22-D-W-K10-P62 185673	C22-DR-W-K10-P62 185610							
		Without button plate		 	 	 	C22-D-X-K10-P62 185604	C22-DR-X-K10-P62 185613							
		Without button plate		 	 	 	C22-D-X-K20-P62 185606	C22-DR-X-K20-P62 185615							
		Without button plate		 	 	 	C22-D-R-K01-P65 185617	C22-DR-R-K01-P65 185626							
		Without button plate		 	 	 	C22-D-S-K01-P65 185618	C22-DR-S-K01-P65 185627							
		Without button plate		 	 	 	C22-D-X-K01-P65 185620	C22-DR-X-K01-P65 185629							
		Without button plate		 	 	 	C22-D-X-K11-P65 185623	C22-DR-X-K11-P65 185632							
		Without button plate		 	 	 	C22-D-G-K10-P65 185616	C22-DR-G-K10-P65 185625							
		Without button plate		 	 	 	C22-D-W-K10-P65 185619	C22-DR-W-K10-P65 185628							
		Without button plate		 	 	 	C22-D-X-K10-P65 185622	C22-DR-X-K10-P65 185631							
		Without button plate		 	 	 									

Function:	Contact configuration ¹⁾	Contact sequence	Contact diagram ²⁾	Cable length of 0.2 m	Cable length of 1 m	Std. pack	
				Part no. Article no.	Part no. Article no.		
 = Momentary  = Maintained	N/O = Normally open contact	N/C = Normally closed contact					
Selector switches							
Silver bezel With thumb-grip IP66 (at front), IP65 (at rear)							
2 positions Cable (black) with M12A plug, 4 pole	 40°	1 N/O			C22-WK-K10-P1 186098	C22-WK-K10-P5 186114	1 unit
	 60°				C22-WRK-K10-P1 186103	C22-WRK-K10-P5 186119	
2 positions Cable (black) with M8 plug, 4 pole	 40°	1 N/O			C22-WK-K10-P30 186130	C22-WK-K10-P32 186146	1 unit
	 60°				C22-WRK-K10-P30 186135	C22-WRK-K10-P32 186151	
2 positions Cable (black) with unterminated end, 4 pole	 40°	1 N/C ⊕			C22-WK-K01-P62 186161	C22-WK-K01-P65 186177	1 unit
	 60°			Zw = 4.5 mm	C22-WRK-K01-P62 186166	C22-WRK-K01-P65 186182	
	 40°	2 N/C ⊕			C22-WK-K02-P62 186158	C22-WK-K02-P65 186174	
	 60°			Zw = 4.5 mm	C22-WRK-K02-P62 186163	C22-WRK-K02-P65 186179	
	 40°	1 N/O			C22-WK-K11-P62 186159	C22-WK-K11-P65 186175	
	 60°			Zw = 4.5 mm	C22-WRK-K11-P62 186164	C22-WRK-K11-P65 186180	
	 40°	1 N/O			C22-WK-K10-P62 186162	C22-WK-K10-P65 186178	
	 60°				C22-WRK-K10-P62 186167	C22-WRK-K10-P65 186183	
	 40°	2 N/O			C22-WK-K20-P62 186160	C22-WK-K20-P65 186176	
	 60°				C22-WRK-K20-P62 186165	C22-WRK-K20-P65 186181	

Notes¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence:  = Contact closed  = Contact open

Function:	Contact configuration ¹⁾	Contact sequence	Contact diagram ²⁾	Cable length of 0.2 m		Cable length of 1 m	Std. pack
				Part no.	Article no.	Part no.	
 = Momentary  = Maintained	N/O = Normally open N/C = Normally closed contact						
Selector switches							
Silver bezel With thumb-grip IP66 (at front), IP65 (at rear)							
3 positions Cable (black) with M12A plug, 4 pole	40°  40°	2 N/O			C22-WK3-K20-P1 186106	C22-WK3-K20-P5 186122	1 unit
	60°  60°				C22-WRK3-K20-P1 186109	C22-WRK3-K20-P5 186125	
3 positions Cable (black) with M8 plug, 4 pole	40°  40°	2 N/O			C22-WK3-K20-P30 186138	C22-WK3-K20-P32 186154	1 unit
	60°  60°				C22-WRK3-K20-P30 186141	C22-WRK3-K20-P32 186157	
3 positions Cable (black) with unterminated end, 4 pole	40°  40°	2 N/C ⊕	 BN WH BK BU	 0 2.2 5.5 Zw = 4.5 mm	C22-WK3-K02-P62 186168	C22-WK3-K02-P65 186184	1 unit
	60°  60°				C22-WRK3-K02-P62 186171	C22-WRK3-K02-P65 186187	
	40°  40°	1 N/O		 3.15 0 2.2 5.5 Zw = 4.5 mm	C22-WK3-K11-P62 186169	C22-WK3-K11-P65 186185	
	60°  60°				C22-WRK3-K11-P62 186172	C22-WRK3-K11-P65 186188	
	40°  40°	2 N/O	 BN WH BK BU	 0 3.15 5.5	C22-WK3-K20-P62 186170	C22-WK3-K20-P65 186186	
	60°  60°				C22-WRK3-K20-P62 186173	C22-WRK3-K20-P65 186189	

Notes¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence:  = Contact closed  = Contact open

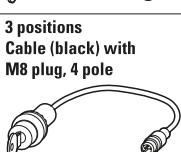
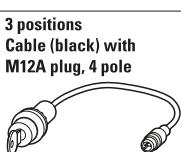
Function:	Key withdrawable at position	Contact configuration ¹⁾	Contact sequence	Contact diagram	Cable length of 0.2 m	Cable length of 1 m	Std. pack		
					Part no.	Part no.			
					Article no.	Article no.			
↗ = Momentary ↖ = Maintained	N/O = Normally open N/C = Normally closed contact								
Key-operated buttons									
Silver bezel MS1 lock mechanism Not suitable for master key systems With 1 key IP66 (at front), IP65 (at rear)									
2 positions Cable (black) with M12A plug, 4 pole									
									
↗ 40°	0	1 N/O				C22-WS-MS1-K10-P1 186194	C22-WS-MS1-K10-P5 186210	1 unit	
↖ 60°	I	0				C22-WRS-MS1-K10-P1 186199	C22-WRS-MS1-K10-P5 186215		
2 positions Cable (black) with M8 plug, 4 pole									
									
↗ 40°	0	1 N/O				C22-WS-MS1-K10-P30 186226	C22-WS-MS1-K10-P32 186242	1 unit	
↖ 60°	I	0				C22-WRS-MS1-K10-P30 186231	C22-WRS-MS1-K10-P32 186247		
2 positions Cable (black) with unterminated end, 4 pole									
									
↗ 40°	0	1 N/C ⊕	BN			C22-WS-MS1-K01-P62 186257	C22-WS-MS1-K01-P65 186273	1 unit	
↖ 60°	I	0				C22-WRS-MS1-K01-P62 186262	C22-WRS-MS1-K01-P65 186278		
↗ 40°	0	2 N/C ⊕	BN WH			C22-WS-MS1-K02-P62 186254	C22-WS-MS1-K02-P65 186270		
↖ 60°	I	0				C22-WRS-MS1-K02-P62 186259	C22-WRS-MS1-K02-P65 186275		
↗ 40°	0	1 N/O	1 N/C ⊕	BN WH			C22-WS-MS1-K11-P62 186255	C22-WS-MS1-K11-P65 186271	
↖ 60°	I	0				C22-WRS-MS1-K11-P62 186260	C22-WRS-MS1-K11-P65 186276		
Zw = 4.5 mm						Zw = 4.5 mm			
↗ 40°	0	1 N/O				C22-WS-MS1-K10-P62 186258	C22-WS-MS1-K10-P65 186274		
↖ 60°	I	0				C22-WRS-MS1-K10-P62 186263	C22-WRS-MS1-K10-P65 186279		
↗ 40°	0	2 N/O	BN WH			C22-WS-MS1-K20-P62 186256	C22-WS-MS1-K20-P65 186272		
↖ 60°	I	0				C22-WRS-MS1-K20-P62 186261	C22-WRS-MS1-K20-P65 186277		
Zw = 4.5 mm									

Notes¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence  = Contact closed  = Contact open

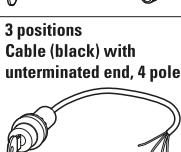
Function:	Contact withdrawal at position	Contact configuration ¹⁾	Contact sequence	Contact diagram	Cable length of 0.2 m	Cable length of 1 m	Std. pack
					Part no.	Part no.	
↗ = Momentary	N/O =	N/C =					
↙ = Maintained	Normally open	Normally closed contact			Article no.	Article no.	

Key-operated buttons

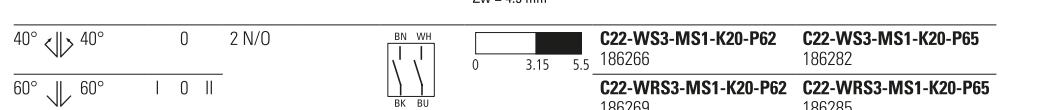
Silver bezel
MS1 lock mechanism
Not suitable for master key systems
With 1 key
IP66 (at front), IP65 (at rear)



40° < > 40°	0	2 N/O			C22-WS3-MS1-K20-P30 186234	C22-WS3-MS1-K20-P32 186250	1 unit
60° 60°		0			C22-WRS3-MS1-K20-P30 186237	C22-WRS3-MS1-K20-P32 186253	



40° ↘ 40°	0	2 N/C ⊕		 BK BU	 0 2.2 5.5 Zw = 4.5 mm	C22-WS3-MS1-K02-P62 186264	C22-WS3-MS1-K02-P65 186280	1 unit
60° ↘ 60°	I 0 II					C22-WRS3-MS1-K02-P62 186267	C22-WRS3-MS1-K02-P65 186283	
40° ↘ 40°	0	1 N/O	1 N/C ⊕		 BK BU	 3.15 0 2.2 5.5	C22-WS3-MS1-K11-P62 186265	C22-WS3-MS1-K11-P65 186281
60° ↘ 60°	I 0 II					C22-WRS3-MS1-K11-P62 186268	C22-WRS3-MS1-K11-P65 186284	



Notes

¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

2) Contact sequence █ = Contact closed █ = Contact open

Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
Indicator lights						
Flush LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear)						
	0.2		 		C22-L-B-24-P1 185119	1 unit
			 		C22-L-G-24-P1 185120	
			 		C22-L-R-24-P1 185121	
			 		C22-L-W-24-P1 185122	
			 		C22-L-Y-24-P1 185123	
	0.5		 		C22-L-B-24-P3 181619	
			 		C22-L-G-24-P3 181620	
			 		C22-L-R-24-P3 181621	
			 		C22-L-W-24-P3 181622	
			 		C22-L-Y-24-P3 181623	
	0.2		 		C22-L-B-24-P5 181137	1 unit
			 		C22-L-G-24-P5 181139	
			 		C22-L-R-24-P5 181141	
			 		C22-L-W-24-P5 181059	
			 		C22-L-Y-24-P5 181061	
	0.5		 		C22-L-B-24-P30 185124	
			 		C22-L-G-24-P30 185125	
			 		C22-L-R-24-P30 185126	
			 		C22-L-W-24-P30 185127	
			 		C22-L-Y-24-P30 185128	
	1		 		C22-L-B-24-P31 185129	
			 		C22-L-G-24-P31 185130	
			 		C22-L-R-24-P31 185131	
			 		C22-L-W-24-P31 185132	
			 		C22-L-Y-24-P31 185133	
	1		 		C22-L-B-24-P32 185134	
			 		C22-L-G-24-P32 185135	
			 		C22-L-R-24-P32 185136	
			 		C22-L-W-24-P32 185137	
			 		C22-L-Y-24-P32 185138	

Connection type	Cable length	Lens	LED	Contact sequence	Part no.	Std. pack
	m				Article no.	
Indicator lights						
Cable (black) with unterminated end, 4 pole						
	1			WH BU	C22-L-B-24-P62 185139	1 unit
	3.5				C22-L-G-24-P62 185140	
					C22-L-R-24-P62 185141	
					C22-L-W-24-P62 185142	
					C22-L-Y-24-P62 185143	
					C22-L-B-24-P65 185144	
					C22-L-G-24-P65 185145	
					C22-L-R-24-P65 185146	
					C22-L-W-24-P65 185147	
					C22-L-Y-24-P65 185148	

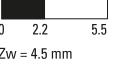
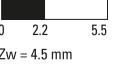
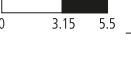
Cable length m	Button plate	LED	Contact configuration ¹⁾	Contact sequence	Contact diagram ²⁾	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
			N/O = Normally open contact	N/C = Normally closed contact				
Illuminated pushbutton actuators								
Silver bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear) Flush								
Cable (black) with M12A plug, 4 pole	0.2		1 N/C ⊕			C22-DL-R-K01-24-P1 185555 Zw = 4.5 mm	C22-DRL-R-K01-24-P1 185559	1 unit
			1 N/O			C22-DL-B-K10-24-P1 185553	C22-DRL-B-K10-24-P1 185557	
						C22-DL-G-K10-24-P1 185554	C22-DRL-G-K10-24-P1 185558	
						C22-DL-W-K10-24-P1 185556	C22-DRL-W-K10-24-P1 185560	
	0.5		1 N/C ⊕			C22-DL-R-K01-24-P3 181626 Zw = 4.5 mm	C22-DRL-R-K01-24-P3 181630	
			1 N/O			C22-DL-B-K10-24-P3 181624	C22-DRL-B-K10-24-P3 181628	
						C22-DL-G-K10-24-P3 181625	C22-DRL-G-K10-24-P3 181629	
						C22-DL-W-K10-24-P3 181627	C22-DRL-W-K10-24-P3 181631	
	1		1 N/C ⊕			C22-DL-R-K01-24-P5 181303 Zw = 4.5 mm	C22-DRL-R-K01-24-P5 181368	
			1 N/O			C22-DL-B-K10-24-P5 181298	C22-DRL-B-K10-24-P5 181364	
Cable (black) with M8 plug, 4 pole	0.2		1 N/C ⊕			C22-DL-R-K01-24-P30 185563 Zw = 4.5 mm	C22-DRL-R-K01-24-P30 185567	1 unit
			1 N/O			C22-DL-B-K10-24-P30 185561	C22-DRL-B-K10-24-P30 185565	
						C22-DL-G-K10-24-P30 185562	C22-DRL-G-K10-24-P30 185566	
						C22-DL-W-K10-24-P30 185564	C22-DRL-W-K10-24-P30 185568	
	0.5		1 N/C ⊕			C22-DL-R-K01-24-P31 185571 Zw = 4.5 mm	C22-DRL-R-K01-24-P31 185575	
			1 N/O			C22-DL-B-K10-24-P31 185569	C22-DRL-B-K10-24-P31 185573	
						C22-DL-G-K10-24-P31 185570	C22-DRL-G-K10-24-P31 185574	
						C22-DL-W-K10-24-P31 185572	C22-DRL-W-K10-24-P31 185576	
	1		1 N/C ⊕			C22-DL-R-K01-24-P32 185579 Zw = 4.5 mm	C22-DRL-R-K01-24-P32 185583	
			1 N/O			C22-DL-B-K10-24-P32 185577	C22-DRL-B-K10-24-P32 185581	
						C22-DL-G-K10-24-P32 185578	C22-DRL-G-K10-24-P32 185582	
						C22-DL-W-K10-24-P32 185580	C22-DRL-W-K10-24-P32 185584	

Cable length m	Button plate	LED	Contact configuration ¹⁾	Contact sequence	Contact diagram ²⁾	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
			N/O = Normally open contact	N/C = Normally closed contact				

Illuminated pushbutton actuators

Cable (black) with unterminated end, 4 pole

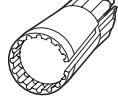


1		1 N/C ⊕				C22-DL-R-K01-24-P62 185587	C22-DRL-R-K01-24-P62 185591	1 unit
		1 N/O				C22-DL-B-K10-24-P62 185585	C22-DRL-B-K10-24-P62 185589	
						C22-DL-G-K10-24-P62 185586	C22-DRL-G-K10-24-P62 185590	
						C22-DL-W-K10-24-P62 185588	C22-DRL-W-K10-24-P62 185592	
3.5		1 N/C ⊕				C22-DL-R-K01-24-P65 185595	C22-DRL-R-K01-24-P65 185599	
		1 N/O				C22-DL-B-K10-24-P65 185593	C22-DRL-B-K10-24-P65 185597	
						C22-DL-G-K10-24-P65 185594	C22-DRL-G-K10-24-P65 185598	
						C22-DL-W-K10-24-P65 185596	C22-DRL-W-K10-24-P65 185600	

Notes

¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

²⁾ Contact sequence: ■ = Contact closed □ = Contact open

Mounting ring tool

For threaded ring; can be used with cordless screwdriver.

Part no.
Article no.

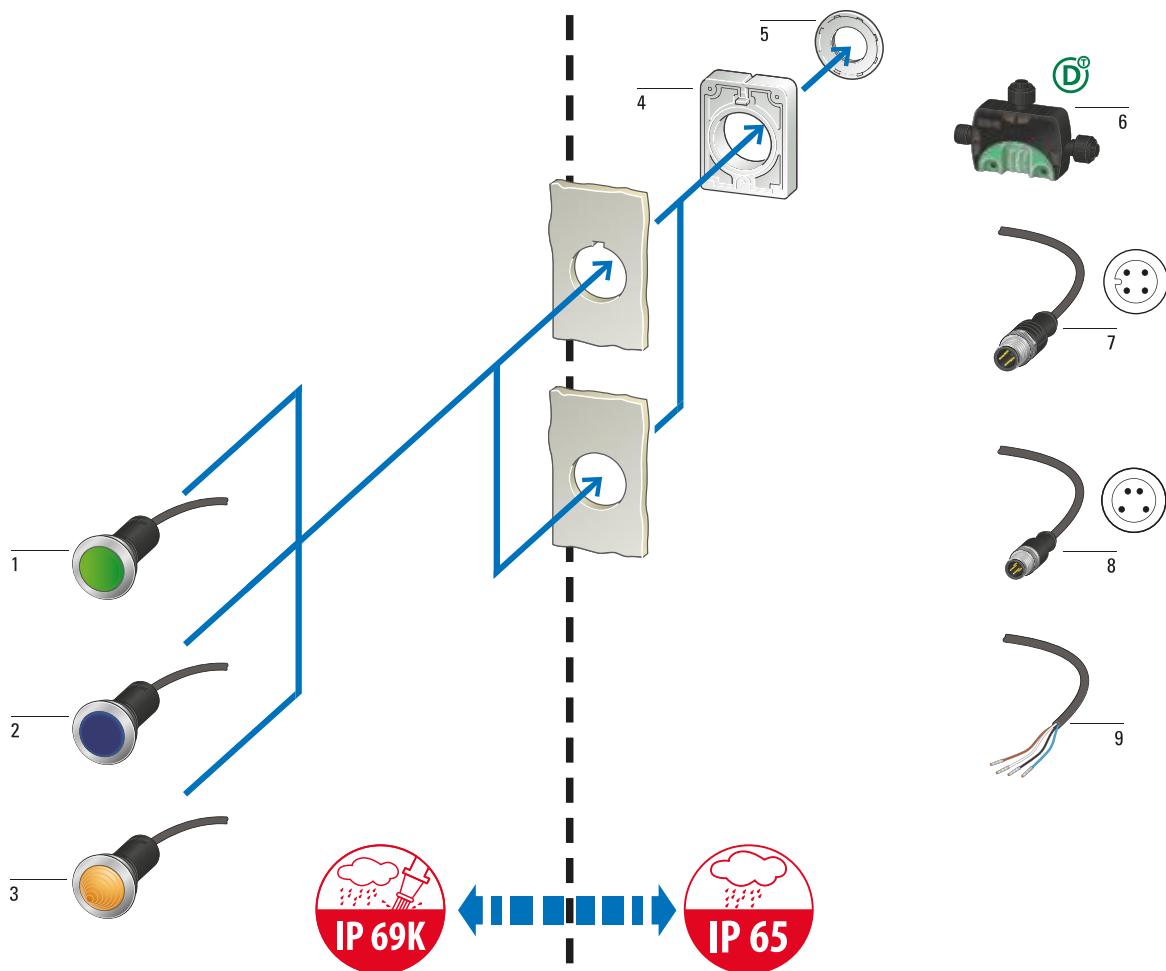
Std.
pack

C22-MS
179955

1 unit

System overview

2

**C30 pushbuttons**

Momentary and maintained
Flush
Colors: white, green, red, black
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
→ Page 111

1

C30 illuminated pushbutton actuators

Momentary and maintained
Flush
Colors: white, green, red, blue
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 114

2

C30 indicator lights

Flush
Colors: white, green, red, blue, yellow
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 113

3

RMQ-AFX anti-rotation tab

Included with C30 compact devices

4

Threaded rings

→ Page 70

5

SmartWire-DT I/O module

For connecting digital input/output signals to SmartWire-DT
IP67

6

Cable with M12A plug, 4 pole

7

Cable with M8 plug, 4 pole

8

Cable end open, 4 pole

9

Product selection

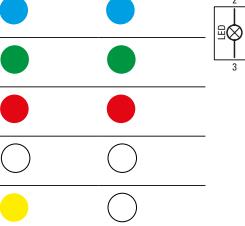
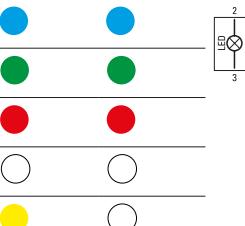
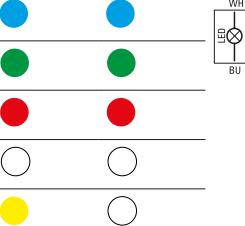
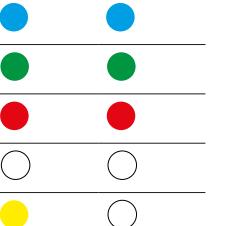
Cable length m	Button plate	Contact configuration ¹⁾	Contact sequence ²⁾	Contact diagram	Momentary	Maintained	Std. pack					
					Part no. Article no.	Part no. Article no.						
Pushbuttons												
30 mm Flat Front Metal bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush												
Cable (black) with M12A plug, 4 pole	1		1 N/C ⊕		C30C-FD-R-K01-P5 185987	C30C-FDR-R-K01-P5 185996	1 unit					
					C30C-FD-S-K01-P5 185985	C30C-FDR-S-K01-P5 185994						
		Without button plate			C30C-FD-X-K01-P5 185989	C30C-FDR-X-K01-P5 185998						
			1 N/O		C30C-FD-G-K10-P5 185988	C30C-FDR-G-K10-P5 185997						
					C30C-FD-W-K10-P5 185986	C30C-FDR-W-K10-P5 185995						
		Without button plate			C30C-FD-X-K10-P5 185990	C30C-FDR-X-K10-P5 185999						
Cable (black) with M8 plug, 4 pole	1		1 N/C ⊕		C30C-FD-R-K01-P32 186018	C30C-FDR-R-K01-P32 186027	1 unit					
					C30C-FD-S-K01-P32 186016	C30C-FDR-S-K01-P32 186025						
		Without button plate			C30C-FD-X-K01-P32 186020	C30C-FDR-X-K01-P32 186029						
			1 N/O		C30C-FD-G-K10-P32 186019	C30C-FDR-G-K10-P32 186028						
					C30C-FD-W-K10-P32 186017	C30C-FDR-W-K10-P32 186026						
		Without button plate			C30C-FD-X-K10-P32 186021	C30C-FDR-X-K10-P32 186030						

Notes

¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence: ■ = Contact closed □ = Contact open

Cable length m	Button plate	Contact configuration ¹⁾	Contact sequence ²⁾	Contact diagram	Momentary	Maintained	Std. pack
					Part no.	Part no.	
Pushbuttons							
Cable (black) with unterminated end, 4 pole							
1		1 N/C ⊕			C30C-FD-R-K01-P62 186049	C30C-FDR-R-K01-P62 186058	1 unit
		N/O = Normally open contact	N/C = Normally closed contact		C30C-FD-S-K01-P62 186047	C30C-FDR-S-K01-P62 186056	
					C30C-FD-X-K01-P62 186051	C30C-FDR-X-K01-P62 186060	
		Without button plate	Without button plate		C30C-FD-X-K02-P62 186055	C30C-FDR-X-K02-P62 186064	
		Without button plate	1 N/O		C30C-FD-X-K11-P62 186053	C30C-FDR-X-K11-P62 186062	
		1 N/O			C30C-FD-G-K10-P62 186050	C30C-FDR-G-K10-P62 186059	
		Without button plate			C30C-FD-W-K10-P62 186048	C30C-FDR-W-K10-P62 186057	
		Without button plate	2 N/O		C30C-FD-X-K10-P62 186052	C30C-FDR-X-K10-P62 186061	
3.5		1 N/C ⊕			C30C-FD-R-K01-P65 185960	C30C-FDR-R-K01-P65 185969	
		N/O = Normally open contact	N/C = Normally closed contact		C30C-FD-S-K01-P65 185958	C30C-FDR-S-K01-P65 185967	
					C30C-FD-X-K01-P65 185962	C30C-FDR-X-K01-P65 185971	
		Without button plate	Without button plate		C30C-FD-X-K02-P65 185966	C30C-FDR-X-K02-P65 185975	
		Without button plate	1 N/O		C30C-FD-X-K11-P65 185964	C30C-FDR-X-K11-P65 185973	
		1 N/O			C30C-FD-G-K10-P65 185961	C30C-FDR-G-K10-P65 185970	
		Without button plate			C30C-FD-W-K10-P65 185959	C30C-FDR-W-K10-P65 185968	
		Without button plate	2 N/O		C30C-FD-X-K10-P65 185963	C30C-FDR-X-K10-P65 185972	
		Without button plate			C30C-FD-X-K20-P65 185965	C30C-FDR-X-K20-P65 185974	

Notes¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence: ■ = Contact closed □ = Contact open

Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
Indicator lights						
30 mm Flat Front Metal bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear)						
	1				C30C-FL-B-24-P5 186013	1 unit
					C30C-FL-G-24-P5 186012	
					C30C-FL-R-24-P5 186011	
					C30C-FL-W-24-P5 186015	
					C30C-FL-Y-24-P5 186014	
	1				C30C-FL-B-24-P32 186044	1 unit
					C30C-FL-G-24-P32 186043	
					C30C-FL-R-24-P32 186042	
					C30C-FL-W-24-P32 186046	
					C30C-FL-Y-24-P32 186045	
	1				C30C-FL-B-24-P62 185955	1 unit
					C30C-FL-G-24-P62 185954	
					C30C-FL-R-24-P62 185953	
					C30C-FL-W-24-P62 185957	
					C30C-FL-Y-24-P62 185956	
	3.5				C30C-FL-B-24-P65 186070	
					C30C-FL-G-24-P65 186069	
					C30C-FL-R-24-P65 185984	
					C30C-FL-W-24-P65 186072	
					C30C-FL-Y-24-P65 186071	

Cable length m	Button plate	LED	Contact configuration ¹⁾	Contact sequence	Contact diagram ²⁾	Momentary	Maintained	Std. pack
						Part no. Article no.	Part no. Article no.	
			N/O = Normally open contact	N/C = Normally closed contact				

Illuminated pushbutton actuators30 mm Flat Front
Metal bezel

LED rated operating voltage: 24 V AC/DC

IP66, IP67, IP69K (at front), IP65 (at rear)

Flush

Cable (black) with M12A plug, 4 pole	1			1 N/C ⊕			C30C-FDL-R-K01-24-P5 186004	C30C-FDRL-R-K01-24-P5 186008	1 unit
				1 N/O			C30C-FDL-B-K10-24-P5 186006	C30C-FDRL-B-K10-24-P5 186010	
Cable (black) with M8 plug, 4 pole	1			1 N/C ⊕			C30C-FDL-G-K10-24-P5 186005	C30C-FDRL-G-K10-24-P5 186009	1 unit
				1 N/O			C30C-FDL-W-K10-24-P5 186003	C30C-FDRL-W-K10-24-P5 186007	
Cable (black) with unterminated end, 4 pole	1			1 N/C ⊕			C30C-FDL-R-K01-24-P32 186035	C30C-FDRL-R-K01-24-P32 186039	1 unit
				1 N/O			C30C-FDL-B-K10-24-P32 186037	C30C-FDRL-B-K10-24-P32 186041	
Cable (black) with unterminated end, 4 pole	3.5			1 N/C ⊕			C30C-FDL-G-K10-24-P62 186067	C30C-FDRL-G-K10-24-P62 186051	1 unit
				1 N/O			C30C-FDL-W-K10-24-P62 186065	C30C-FDRL-W-K10-24-P62 185949	

Notes¹⁾ ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1²⁾ Contact sequence: = Contact closed = Contact open

Mounting ring tool	Part no. Article no.	Std. pack
	C22-MS 179955	1 unit

Technical data

2

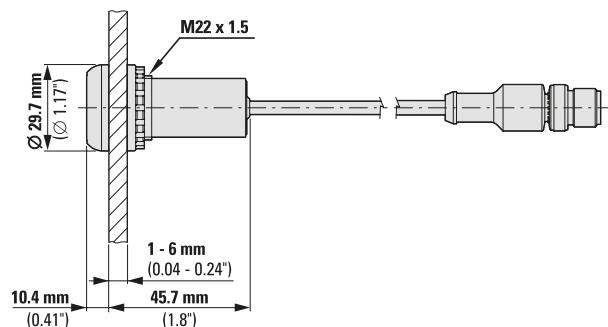
	Controlled stop/ emergency switching off buttons	(Illuminated) pushbuttons Momentary/ maintained	Selector switches	Key-operated buttons	Indicator lights
General					
Standards	IEC/EN 60947-5-5 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660
Lifespan, mechanical	Operations $\times 10^6$	0.05	5/1	1	0.1
Operating frequency	Operations/h	300	3600	2000	100
Operating force	N	50	5	—	—
Operating torque	Nm	—	—	0.3	0.5
Plug tightening torque	Nm	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6
Threaded ring tightening torque	Nm	2	2	2	2
Climatic proofing					
Damp heat, constant	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78
Damp heat, cyclic	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30
Degree of protection	IP66, IP67, IP69K (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)
Ambient air temperature					
Open	°C	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Storage	°C	-30 - +80	-30 - +80	-30 - +80	-30 - +80
Mounting position	Any	Any	Any	Any	Any
Mechanical shock resistance for a shock duration of 11 ms	g	> 30	> 30	> 30	> 30
Contacts					
Rated impulse withstand voltage	U_{imp}	V AC	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800
Rated insulation voltage	U_i	V	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30
Overvoltage category/ degree of pollution			III/3	III/3	III/3
Control circuit reliability at 17 V DC/7 mA		HF			
N/O (statistically determined)			1 failure per 17×10^6 operations	1 failure per 17×10^6 operations	1 failure per 17×10^6 operations
N/C (statistically determined)			1 failure per 0.9×10^6 operations	1 failure per 0.9×10^6 operations	1 failure per 0.9×10^6 operations
Fuse	gG/gL	A	4	4	4
Conditional short-circuit current	I_q	kA	1	1	1
Switching capacity					
Rated operational current	I_e	A			
AC-15: 24 V	I_e	A	4	4	4
DC-13: 24 V	I_e	A	3	3	3
Cable characteristics					
Versions		M12A/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated
Material		PUR	PUR	PUR	PUR
Diameter	Ø	mm	4.7	4.7	4.7
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1					
Positive opening sequence		mm	4.65	4.65	4.65
Maximum travel		mm	5.11	5.7	5.7
Minimum force for positive opening	N	K01 = 15/K11 = 20/K02 = 34	K01 = 15/K11 = 20/K02 = 30	K01 = 15/K11 = 20/K02 = 35	K01 = 15/K11 = 20/K02 = 36

Dimensions

2

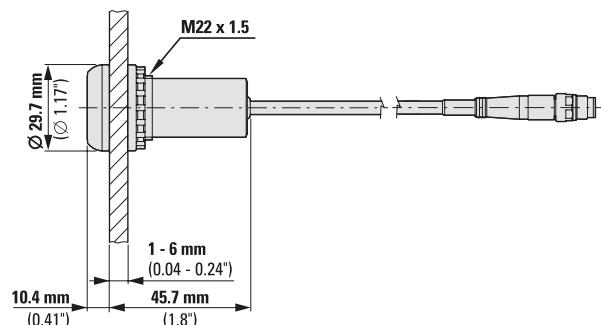
Pushbuttons, M12A

C22-D...-P1/-P3/-P5



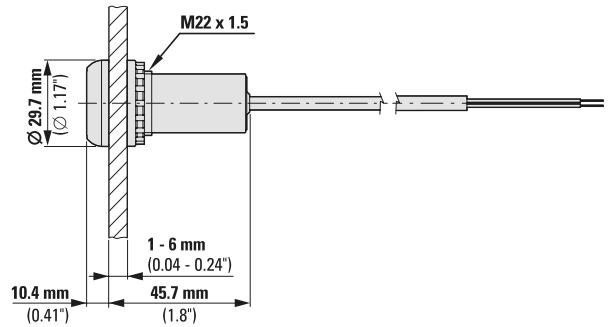
Pushbuttons, M8

C22-D...-P30/-P31/-P32



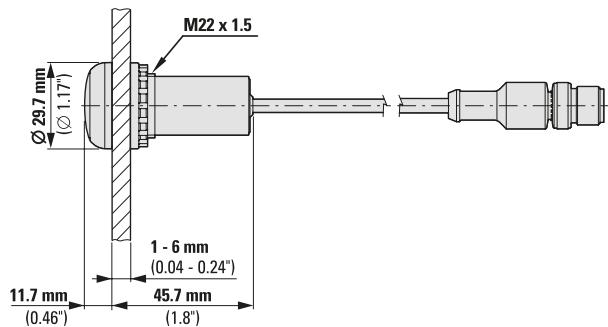
Pushbuttons, unterminated cable end

C22-D...-P/-P62/-P65



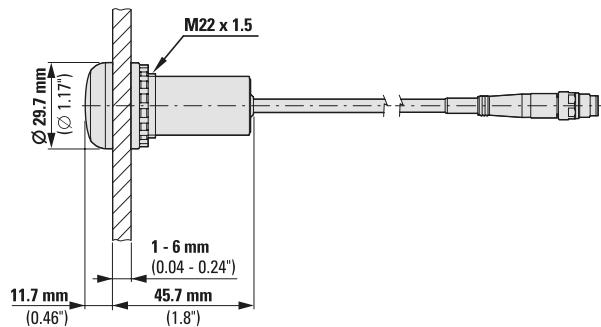
Indicator lights, M12A

C22-L...-P1/-P3/-P5



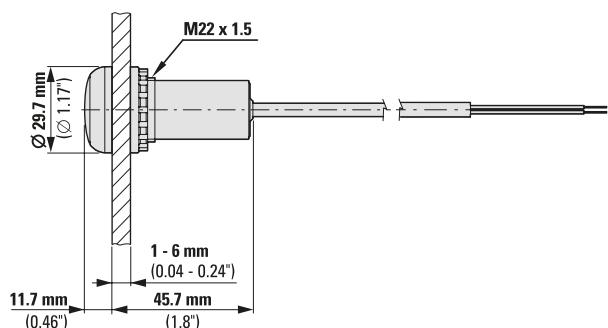
Indicator lights, M8

C22-L...-P30/-P31/-P32



Indicator lights, unterminated cable end

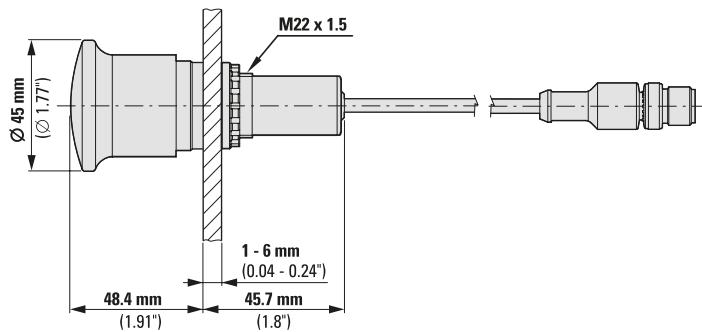
C22-L...-P62/-P65



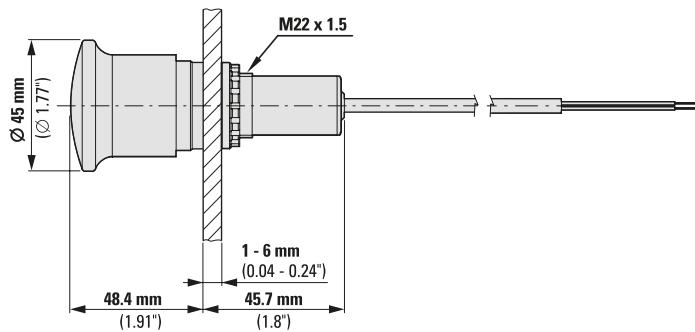
Emergency switching off, M12A

C22-PVT...-P10

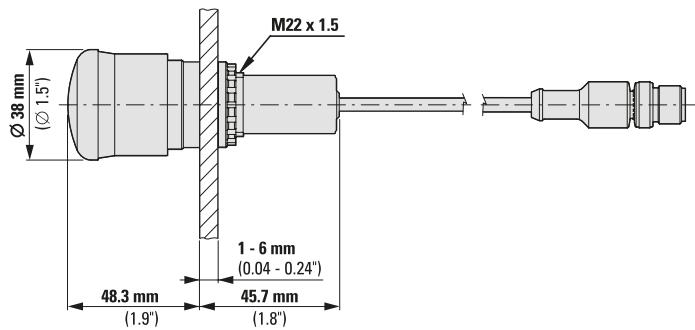
2

**Emergency switching off, unterminated cable end**

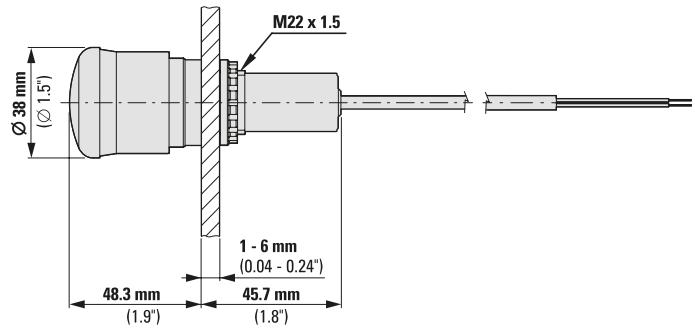
C22-PVT...-P62/-P65

**Emergency switching off, M12A**

C22-PV-...-P10

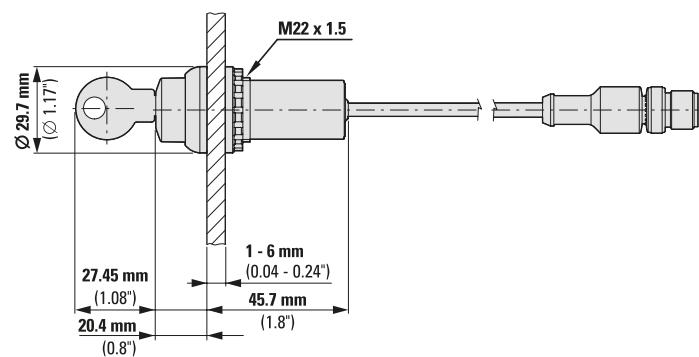
**Emergency switching off, unterminated cable end**

C22-PV-...-P62/-P65

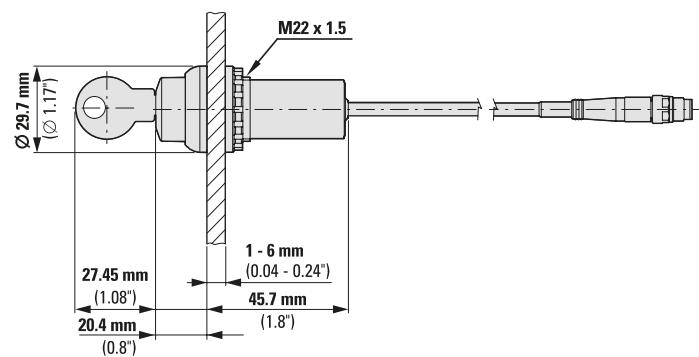


Key-operated buttons, M12A

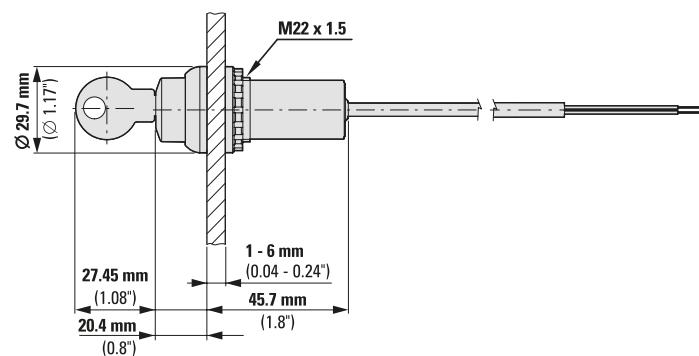
C22-W(R)S(3)-MS1-...-P1/-P5

**Key-operated buttons, M8**

C22-W(R)S(3)-MS1-...-P30/-P32

**Key-operated buttons, unterminated cable end**

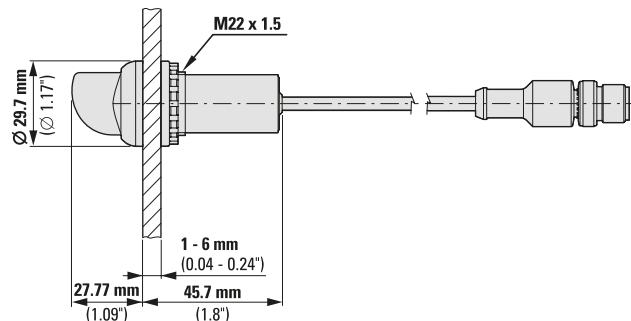
C22-W(R)S(3)-MS1-...-P62/-P65



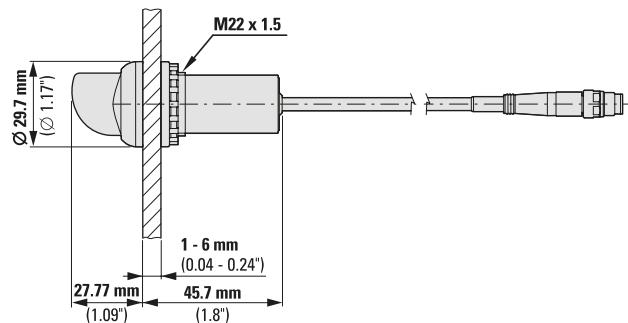
Selector switches, M12A

C22-W(R)K(3)-....P1/-P5

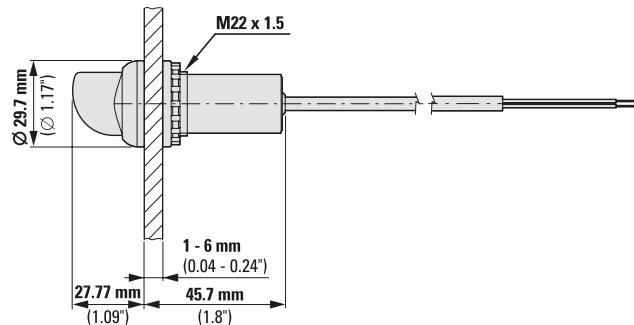
2

**Selector switches, M8**

C22-W(R)K(3)-....P30/-P32

**Selector switches, unterminated cable end**

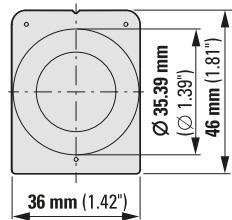
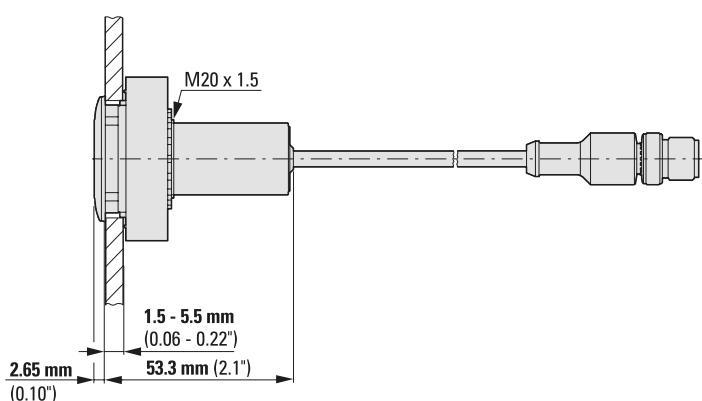
C22-W(R)K(3)-....P62/-P65



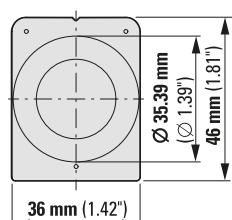
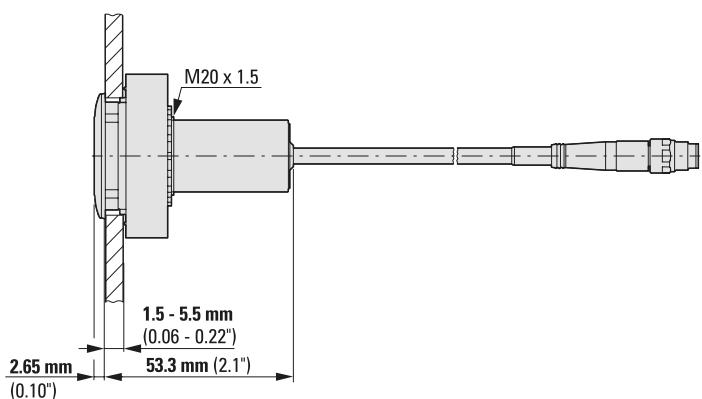
2

Pushbuttons, M12A

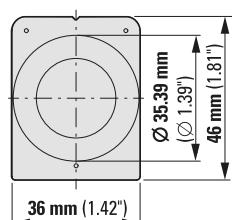
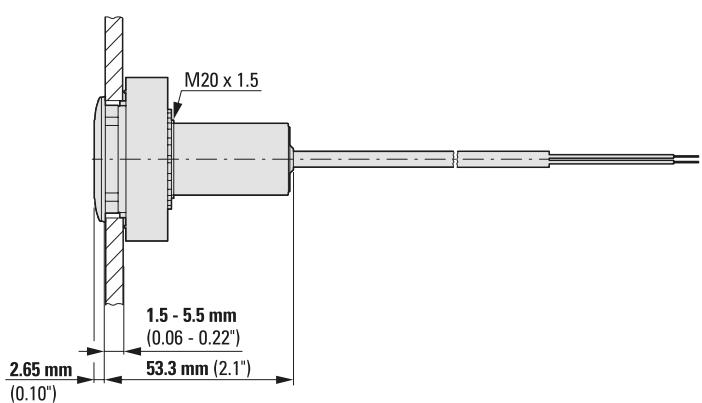
C30C-FD(R)(L)-...-P5

**Pushbuttons, M8**

C30C-FD(R)(L)-...-P32

**Pushbuttons, unterminated cable end**

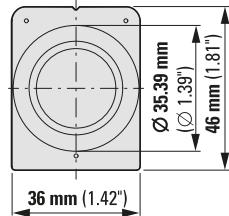
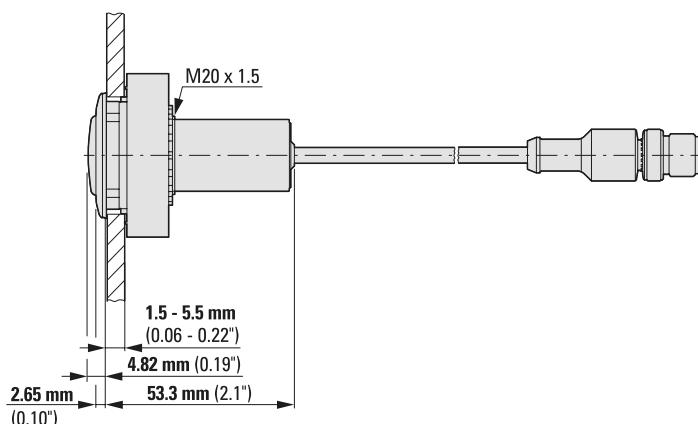
C30C-FD(R)(L)-...-P62/-65



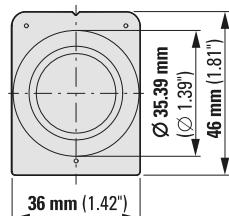
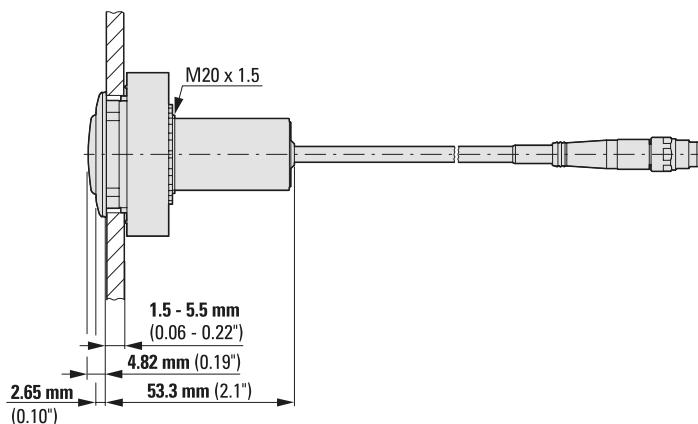
Indicator lights, M12A

C30C-FL-...-P5

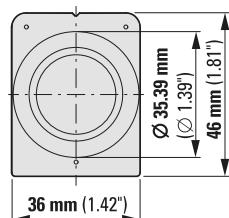
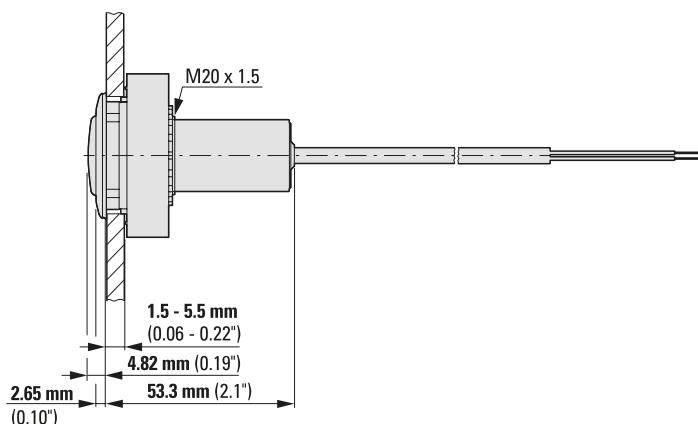
2

**Indicator lights, M8**

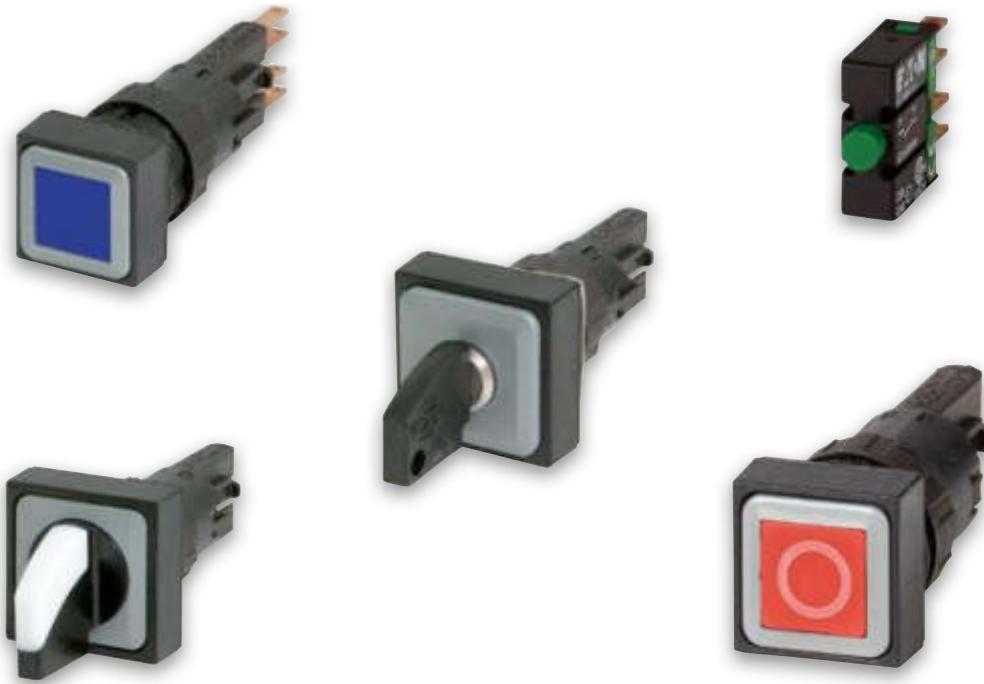
C30C-FL-...-P32

**Indicator lights, unterminated cable end**

C30C-FL-...-24-P62/-P65



Build it in.



The RMQ16 Series Squeezes Signaling and Control into a Tiny Space



www.eaton.eu/rmq16

Square RMQ16 pilot devices with sizes of 18 mm and 25 mm are the perfect solution for control interfaces where space is at a premium. The various front elements can be installed with a perfect fit in any of their possible four directions and, thanks to their IP65 degree of protection in the front, are the perfect choice for safe use in harsh conditions. The series is not only characterized by a wide range of indicator lights, pushbuttons, selector switches, and key-operated switches, but its label editor function within the Pushbutton-Configurator also makes it possible to get customized laser inscriptions. The LED lamps and the contact elements in the series are connected using 2.8 mm x 0.8 mm female push-on connectors.

RMQ16 emergency stop buttons are tamper-proof in compliance with ISO 13850 / EN 418 and have a pull-to-reset mechanism. They can also be used as emergency switching off buttons.

RMQ16



3.0 RMQ16 Pilot devices

3.1 System overview

System overview	124
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3.2 Product selection

Pushbuttons	126
Illuminated pushbutton actuators	127
Changeover switches	128
Illuminated selector switch actuators	129
Key-operated actuators	130
Indicator lights	131
Emergency-Stop pushbuttons, Emergency-Stop labels	132
Accessories	133

3

3.3 Technical data

Technical data	140
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3.4 Dimensions

Dimensions	142
------------------	-----

Product features

- Front dimension and minimum grid dimensions 18 x 18 mm or 25 x 25 mm
- Mounting hole diameter 16.2 mm to EN 50007
- Degree of protection IP65
- For switching differing potentials
- Suitable for use with electronic devices to IEC/EN 61131-2
- Technical data according to IEC/EN 60947-5-1
- Approved throughout the world

3.1

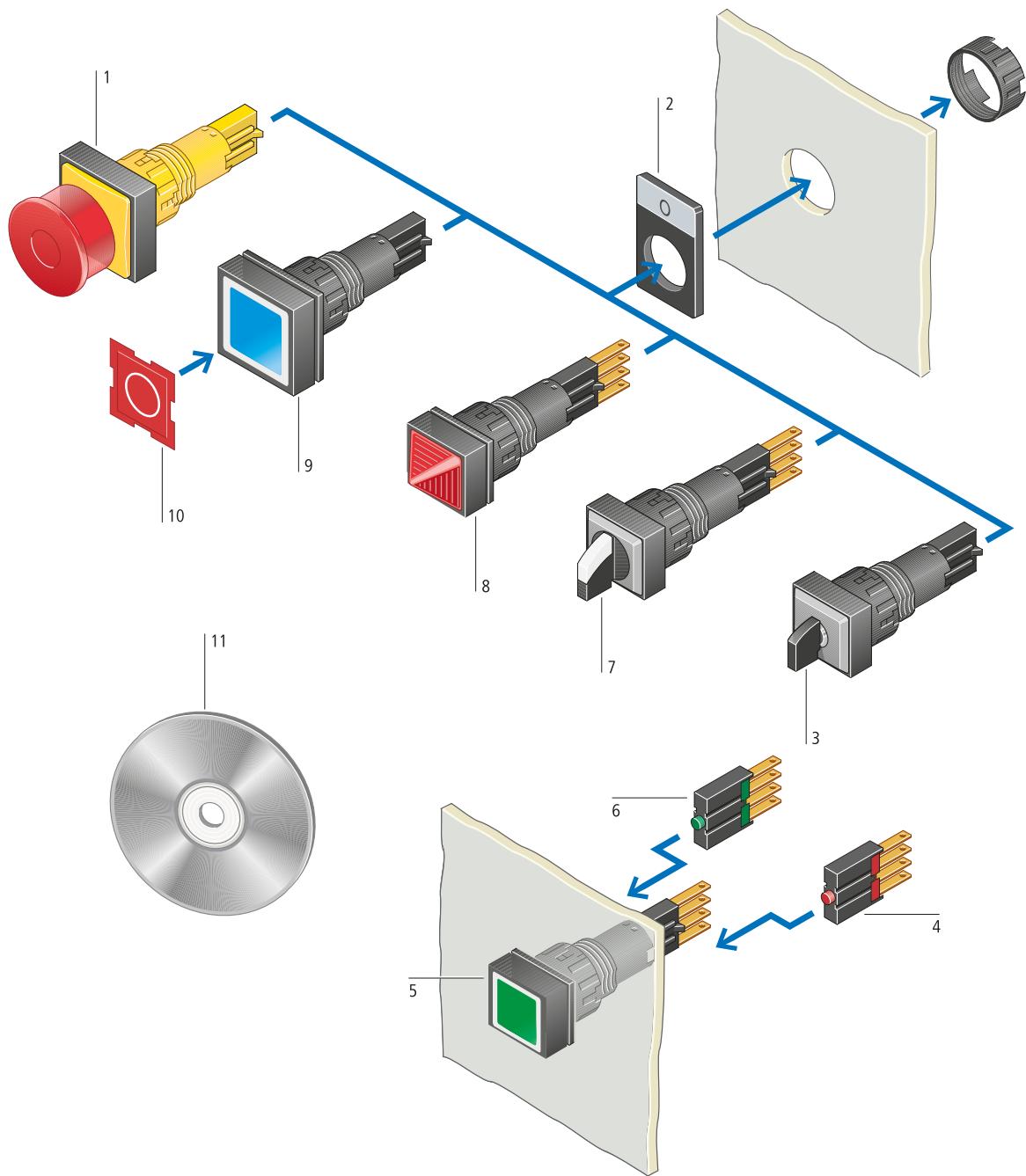
RMQ16 Pilot devices

System overview

Moeller series

System overview

3



Emergency-stop pushbuttons	1
Can also be used as emergency switching off devices	
Tamper-proof according to ISO 13850/EN 418	
Illuminated and non-illuminated	
Additional labels, inscribed or blank	
European Machinery Safety Directive 2006/42/EC	
→ Page 132	
Label mounts	2
For insert labels	
Color: light grey, black, yellow	
Insert labels, inscribed or blank	
→ Page 137	
Key-operated actuator	3
2 and 3 positions	
Switching angle 45°	
Momentary and maintained	
Various lock mechanisms	
→ Page 130	
Break contact element (red)	4
With blade terminal	
Universal contacts suitable for use with electronic devices	
Positive opening safety function according to IEC/EN 60947-5-1	
→ Page 126	
Illuminated pushbutton actuators	5
Momentary and maintained	
Replaceable insert labels	
Colors: white, green, red, yellow, blue custom laser inscription	
→ Page 127	
Make contact element (green)	6
With blade terminal	
Universal contacts suitable for use with electronic devices	
→ Page 126	
Changeover switches	7
2 and 3 positions	
Switching angle 45°momentary and maintained	
Illuminated selector switch actuators with built-in lamp socket	
Colors: white, green, red	
→ Page 128	
Indicator lights	8
Flush and conical designs	
Built-in lamp socket	
For filament lamps and LEDs	
Colors: white, green, red, yellow, blue custom laser inscription	
→ Page 131	
Pushbuttons	9
Momentary and maintained	
Replaceable button plates	
Colors: white, green, red, yellow, blue, black	
→ Page 126	
Button plates/insert labels	10
Wear-resistant button plates for pushbutton actuators	
Transparent insert plates for illuminated pushbuttons and indicator lights	
Inscribed or blank	
With standard text and symbols or with custom laser inscription	
→ Page 133	
Labelling with convenience	11
All button plates, indicator lights and additional button plates from the RMQ range can be laser inscribed with any text and symbol as required.	
Download: www.eaton.eu/config/rmq	
Key word: „Pushbutton-Configurator	
→ Labeleditor Function	

3

Product selection

3

Front dimensions
18 × 18 mmFront dimensions
25 × 25 mmColor
Button platePart no.
Article no.Part no.
Article no.

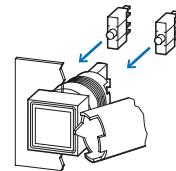
Std. pack

Pushbuttons, IP65

momentary



	green	Q18D-11 086332	Q25D-11 090471	10 off
	red	Q18D-10 086299	Q25D-10 090421	
	white	Q18D-20 054041	Q25D-20 054038	
	black	Q18D-19 054040	Q25D-19 054039	
	black	Q18D-SW 086788	Q25D-SW 087230	
	white	Q18D-WS 086752	Q25D-WS 086808	
	green	Q18D-GN 086450	Q25D-GN 086409	
	red	Q18D-RT 086713	Q25D-RT 086444	
	yellow	Q18D-GE 086417	Q25D-GE 086343	
	blue	Q18D-BL 086384	Q25D-BL 086328	
—	none	Q18D-X 093623	Q25D-X 093624	



Accessories

Assembly aids and
accessories

Page

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Contact elements

N/O Contact

→ 126

N/C contact

→ 126

maintained



	black	Q18DR-SW 086269	Q25DR-SW 088739	10 off
	white	Q18DR-WS 086243	Q25DR-WS 088701	
	green	Q18DR-GN 086176	Q25DR-GN 088531	
	red	Q18DR-RT 086209	Q25DR-RT 088627	
	yellow	Q18DR-GE 090482	Q25DR-GE 088404	
	blue	Q18DR-BL 090241	Q25DR-BL 088110	
—	none	Q18DR-X 093625	Q25DR-X 093626	

Contact configuration:

⊕ = Safety function by positive opening
according to IEC/EN 60947-5-1N/O = normally open N/C = normally closed
contact contact

Contact sequence

Contact diagram

Color

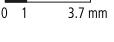
Part no.
Article no.

Std. pack



Contact blocks

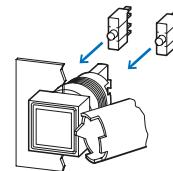
Operational voltage: 5 - 250 V

1 N/O	—				E10 090351	50 off
—	1 N/C ⊕				E01 090401	50 off

Notes


 x = Sequence number on front element
 y = Function number on contact element

		Front dimensions 18 x 18 mm	Front dimensions 25 x 25 mm	Std. pack
	Color	Part no. Article no.	Part no. Article no.	
Illuminated pushbuttons, IP65				
momentary Without filament lamp		—	Q18LT-WS 089202	Q25LT-WS 086262
		—	Q18LT-GN 089067	Q25LT-GN 086206
		—	Q18LT-RT 089776	Q25LT-RT 086238
		—	Q18LT-GE 088808	Q25LT-GE 086173
		—	Q18LT-BL 088764	Q25LT-BL 090479
	—	Without lens	Q18LT-X 051745	Q25LT-X 051746
momentary With filament lamp, 24 V		—	Q18LT-WS/WB 088561	Q25LT-WS/WB 090226
		—	Q18LT-GN/WB 088509	Q25LT-GN/WB 089190
		—	Q18LT-RT/WB 088537	Q25LT-RT/WB 089998
		—	Q18LT-GE/WB 088449	Q25LT-GE/WB 089137
		—	Q18LT-BL/WB 088338	Q25LT-BL/WB 089102
maintained Without filament lamp		—	Q18LTR-WS 088123	Q25LTR-WS 087232
		—	Q18LTR-GN 087831	Q25LTR-GN 086812
		—	Q18LTR-RT 087918	Q25LTR-RT 086840
		—	Q18LTR-GE 087764	Q25LTR-GE 086784
		—	Q18LTR-BL 086813	Q25LTR-BL 086739
	—	Without lens	Q18LTR-X 051735	Q25LTR-X 051736
maintained With filament lamp, 24 V		—	Q18LTR-WS/WB 086708	Q25LTR-WS/WB 086447
		—	Q18LTR-GN/WB 086413	Q25LTR-GN/WB 086380
		—	Q18LTR-RT/WB 086448	Q25LTR-RT/WB 086412
		—	Q18LTR-GE/WB 086382	Q25LTR-GE/WB 086346
		—	Q18LTR-BL/WB 086348	Q25LTR-BL/WB 086330



Accessories
Assembly aids and accessories
Contact elements

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N/O Contact → 126
N/C contact → 126

Contact configuration:
⊕ = Safety function by positive opening
according to IEC/EN 60947-5-1

N/O = normally open contact N/C = normally closed contact

Contact elements

Operational voltage: 5 - 250 V

1 N/O	—			E10 090351	50 off
-------	---	--	--	----------------------	--------

—	1 N/C ⊕			E01 090401	50 off
---	---------	--	--	----------------------	--------

Notes

x = Sequence number on front element
y = Function number on contact element

3.2

RMQ16 Pilot devices

Changeover switches, illuminated selector switches

Moeller series

3



Front dimensions
18 × 18 mm

Front dimensions
25 × 25 mm

Function:

↗ = momentary

↙ = maintained

Color

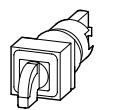
Part no.

Article no.

Part no.

Article no.

Std. pack

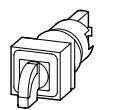


Two positions

Changeover switches, IP65

Incl. anti-rotation feature VS

↗ 45°		Q18WK1 036515	Q25WK1 036599	5 off
↙ 45°		Q18WK1R 036598	Q25WK1R 036600	



Three positions

45° ↗ 45°		Q18WK3 072308	Q25WK3 072372	5 off
45° ↓ 45°		Q18WK3R 072309	Q25WK3R 072373	
45° ↓↗ 45°		Q18WK3R1 072310	Q25WK3R1 072374	
45° ↓↖ 45°		Q18WK3R2 072311	Q25WK3R2 072375	

Illuminated selector switch actuators, IP65

With VS anti-rotation tab

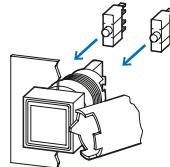
Without filament lamp

↗ 45°		Q18LWK1-WS 040349	Q25LWK1-WS 040658	5 off
-------	--	-----------------------------	-----------------------------	-------



Two positions

↗ 45°		Q18LWK1-RT 039337	Q25LWK1-RT 040657	
↗ 45°		Q18LWK1-GN 039336	Q25LWK1-GN 040656	
↙ 45°		Q18LWK1R-WS 040376	Q25LWK1R-WS 040661	
↙ 45°		Q18LWK1R-RT 040351	Q25LWK1R-RT 040660	
↙ 45°		Q18LWK1R-GN 040350	Q25LWK1R-GN 040659	



With filament lamp, 24 V

↗ 45°		Q18LWK1-WS/WB 038978	Q25LWK1-WS/WB 040379	5 off
-------	--	--------------------------------	--------------------------------	-------



Two positions

↗ 45°		Q18LWK1-RT/WB 038930	Q25LWK1-RT/WB 040378	
↗ 45°		Q18LWK1-GN/WB 038883	Q25LWK1-GN/WB 040377	
↙ 45°		Q18LWK1R-WS/WB 039335	Q25LWK1R-WS/WB 040476	
↙ 45°		Q18LWK1R-RT/WB 039248	Q25LWK1R-RT/WB 040381	
↙ 45°		Q18LWK1R-GN/WB 039247	Q25LWK1R-GN/WB 040380	

Accessories

Assembly aids and accessories

Page

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Contact elements

Page

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N/O Contact

Page

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N/C contact

Front dimensions
18 × 18 mmFront dimensions
25 × 25 mm

Function:

Color

↗ = momentary
↙ = maintained

Part no.

Article no.

Part no.

Article no.

Std. pack

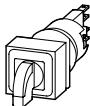
3

Illuminated selector switch actuators, IP65

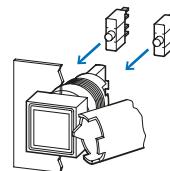
With VS anti-rotation tab

Without filament lamp

Three positions



45° ↗ 45°	○	Q18LWK3-WS 072322	Q25LWK3-WS 072358	5 off
45° ↗ 45°	●	Q18LWK3-RT 072323	Q25LWK3-RT 072359	
45° ↗ 45°	●	Q18LWK3-GN 072324	Q25LWK3-GN 072360	
45° ↓ 45°	○	Q18LWK3R-WS 072325	Q25LWK3R-WS 072361	
45° ↓ 45°	●	Q18LWK3R-RT 072326	Q25LWK3R-RT 072362	
45° ↓ 45°	●	Q18LWK3R-GN 072327	Q25LWK3R-GN 072363	
45° ↓ 45°	○	Q18LWK3R1-WS 072328	Q25LWK3R1-WS 072364	
45° ↓ 45°	●	Q18LWK3R1-RT 072329	Q25LWK3R1-RT 072365	
45° ↓ 45°	●	Q18LWK3R1-GN 072330	Q25LWK3R1-GN 072366	
45° ↘ 45°	○	Q18LWK3R2-WS 072331	Q25LWK3R2-WS 072367	
45° ↘ 45°	●	Q18LWK3R2-RT 072332	Q25LWK3R2-RT 072368	
45° ↘ 45°	●	Q18LWK3R2-GN 072333	Q25LWK3R2-GN 072369	



Accessories

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Contact elements

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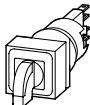
N/O Contact

→ 126

N/C contact

With filament lamp, 24 V

Three positions



45° ↗ 45°	○	Q18LWK3-WS/WB 072334	Q25LWK3-WS/WB 072346	5 off
45° ↗ 45°	●	Q18LWK3-RT/WB 072335	Q25LWK3-RT/WB 072347	
45° ↗ 45°	●	Q18LWK3-GN/WB 072336	Q25LWK3-GN/WB 072348	
45° ↓ 45°	○	Q18LWK3R-WS/WB 072337	Q25LWK3R-WS/WB 072349	
45° ↓ 45°	●	Q18LWK3R-RT/WB 072338	Q25LWK3R-RT/WB 072350	
45° ↓ 45°	●	Q18LWK3R-GN/WB 072339	Q25LWK3R-GN/WB 072351	
45° ↓ 45°	○	Q18LWK3R1-WS/WB 072340	Q25LWK3R1-WS/WB 072352	
45° ↓ 45°	●	Q18LWK3R1-RT/WB 072341	Q25LWK3R1-RT/WB 072353	
45° ↓ 45°	●	Q18LWK3R1-GN/WB 072342	Q25LWK3R1-GN/WB 072354	
45° ↘ 45°	○	Q18LWK3R2-WS/WB 072343	Q25LWK3R2-WS/WB 072355	
45° ↘ 45°	●	Q18LWK3R2-RT/WB 072344	Q25LWK3R2-RT/WB 072356	
45° ↘ 45°	●	Q18LWK3R2-GN/WB 072345	Q25LWK3R2-GN/WB 072357	

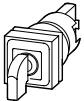
Function:	Key withdrawable in position	Color	Front dimensions 18 × 18 mm	Front dimensions 25 × 25 mm	Std. pack
Part no. Article no.	Part no. Article no.				

▷ = momentary

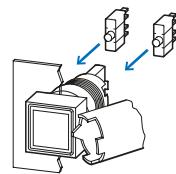
└ = maintained

IP65, key-operated actuators

With 1 key and VS anti-rotation tab

Two positions

▷ 45°	- 0 -	●	Q18S1 038806	Q25S1 038773	5 off
└ 45°	I 0 -	●	Q18S1R 038805	Q25S1R 038772	
└ 45°	- 0 -	●	Q18S1R-A1 072312	Q25S1R-A1 072376	
▷ 45°	- 0 -	●	Q18S1-GN 062148	Q25S1-GN 062150	
└ 45°	I 0 -	●	Q18S1R-GN 062151	Q25S1R-GN 062108	
▷ 45°	- 0 -	●	Q18S1-RT 046841	Q25S1-RT 046843	
└ 45°	I 0 -	●	Q18S1R-RT 046837	Q25S1R-RT 046839	
▷ 45°	- 0 -	○	Q18S1-WS 046849	Q25S1-WS 046851	
└ 45°	I 0 -	○	Q18S1R-WS 046845	Q25S1R-WS 046847	
▷ 45°	- 0 -	●	Q18S1-BL 045959	Q25S1-BL 046835	
└ 45°	I 0 -	●	Q18S1R-BL 062814	Q25S1R-BL 045502	

**Accessories**

Assembly aids and accessories

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Contact elements

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N/O Contact

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N/C contact

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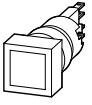
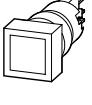
Three positions

45° <▷ 45°	- 0 -	●	Q18S3 072313	Q25S3 072377	5 off
45° ↓ 45°	I 0 II	●	Q18S3R 072314	Q25S3R 072378	
45° ↓ 45°	- 0 -	●	Q18S3R-A1 072315	Q25S3R-A1 072379	
45° ↓ 45°	I 0 -	●	Q18S3R-A2 072316	Q25S3R-A2 072380	
45° ↓ 45°	- 0 II	●	Q18S3R-A3 072317	Q25S3R-A3 072381	
45° ↓ 45°	I 0 -	●	Q18S3R-A4 072318	Q25S3R-A4 072382	
45° ↓ 45°	- 0 -	●	Q18S3R-A5 072319	Q25S3R-A5 072383	
45° <▷ 45°	- 0 II	●	Q18S3R-A6 072320	Q25S3R-A6 072384	
45° <▷ 45°	- 0 -	●	Q18S3R-A7 072321	Q25S3R-A7 072385	
45° <▷ 45°	- 0 -	●	Q18S3-GN 062149	Q25S3-GN 062153	
45° ↓ 45°	I 0 II	●	Q18S3R-GN 062152	Q25S3R-GN 062147	
45° <▷ 45°	- 0 -	●	Q18S3-RT 046842	Q25S3-RT 046844	
45° ↓ 45°	I 0 II	●	Q18S3R-RT 046838	Q25S3R-RT 046840	
45° <▷ 45°	- 0 -	○	Q18S3-WS 046850	Q25S3-WS 046852	
45° ↓ 45°	I 0 II	○	Q18S3R-WS 046846	Q25S3R-WS 046848	
45° <▷ 45°	- 0 -	●	Q18S3-BL 046368	Q25S3-BL 046836	
45° ↓ 45°	I 0 II	●	Q18S3R-BL 064430	Q25S3R-BL 045646	

Notes

For each color there is a corresponding key.

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		Front dimensions 18 × 18 mm	Front dimensions 25 × 25 mm	Std. pack
Color	Part no. Article no.	Part no. Article no.		
Indicator lights, IP65				
flush Without filament lamp 	<input type="checkbox"/> Q18LF-WS 088406	Q25LF-WS 090228	10 off	
	<input checked="" type="checkbox"/> Q18LF-GN 088337	Q25LF-GN 090000		
	<input type="checkbox"/> Q18LF-RT 088387	Q25LF-RT 090198		
	<input type="checkbox"/> Q18LF-GE 088303	Q25LF-GE 089252		
	<input type="checkbox"/> Q18LF-BL 088270	Q25LF-BL 089229		
flush Without lens	<input type="checkbox"/> Q18LX 051739	Q25LX 051740	10 off	
flush With filament lamp, 24 V 	<input type="checkbox"/> Q18LF-WS/WB 088059	Q25LF-WS/WB 089151	10 off	
	<input checked="" type="checkbox"/> Q18LF-GN/WB 087947	Q25LF-GN/WB 088828		
	<input type="checkbox"/> Q18LF-RT/WB 088001	Q25LF-RT/WB 089104		
	<input type="checkbox"/> Q18LF-GE/WB 087915	Q25LF-GE/WB 088798		
	<input type="checkbox"/> Q18LF-BL/WB 087860	Q25LF-BL/WB 088761		
Conical Without filament lamp 	<input type="checkbox"/> Q18LH-WS 088705	Q25LH-WS 086263	10 off	
	<input checked="" type="checkbox"/> Q18LH-GN 088629	Q25LH-GN 086207		
	<input type="checkbox"/> Q18LH-RT 088655	Q25LH-RT 086241		
	<input type="checkbox"/> Q18LH-GE 088585	Q25LH-GE 090481		
	<input type="checkbox"/> Q18LH-BL 088560	Q25LH-BL 090428		
Conical With filament lamp, 24 V 	<input type="checkbox"/> Q18LH-WS/WB 088535	Q25LH-WS/WB 090405	10 off	
	<input checked="" type="checkbox"/> Q18LH-GN/WB 088483	Q25LH-GN/WB 090312		
	<input type="checkbox"/> Q18LH-RT/WB 088507	Q25LH-RT/WB 090354		
	<input type="checkbox"/> Q18LH-GE/WB 088448	Q25LH-GE/WB 090285		
	<input type="checkbox"/> Q18LH-BL/WB 088424	Q25LH-BL/WB 090240		

3.2

RMQ16 Pilot devices

Emergency-Stop pushbuttons, Emergency-Stop labels

Moeller series

3



Front dimensions
25 × 25 mm

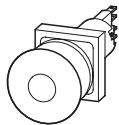
Color	Degree of protection	Part no. Article no.	Std. pack
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Emergency-stop pushbuttons

Tamper-proof according to ISO 13850, EN 418

Pushbutton remains in pushed position; released by pulling
Can also be used as emergency-stop key-release mushroom

Non-illuminated

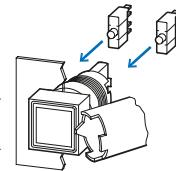


	IP65	Q25PV 072370	5 off
--	------	------------------------	-------

Illuminated

with built-in multiple LED, 24 V DC, I_e = 15 mA
Positive pole at X1
No bulb replacement required.

	IP65	Q25LPV 072371	2 off
--	------	-------------------------	-------



Accessories

Assembly aids and accessories

Page → 138

Contact elements

N/O Contact

→ 126

N/C contact

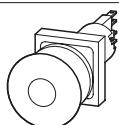
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Emergency-stop pushbuttons

Overload-protected to ISO 13850, EN 418

Pushbutton remains in pushed position; released by pulling

Non-illuminated



	IP65	Q25PV-S 257063	5 off
--	------	--------------------------	-------

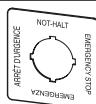
Illuminated

with built-in multiple LED, 24 V DC, I_e = 15 mA
Positive pole at X1
No bulb replacement required.

	IP65	Q25LPV-S 257064	5 off
--	------	---------------------------	-------

Emergency-stop labels

Yellow, black lettering

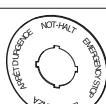


Square
50 × 50 mm
de, en, fr, it

IP65

SQT11
121375

5 off



Round
Ø 60 mm
de, en, fr, it

IP65

SRT11
121374

5 off

Emergency-stop labels

Yellow, black lettering

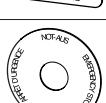


Square
50 × 50 mm
de, en, fr, it

IP65

SQT1
058874

5 off



Round
Ø 60 mm
de, en, fr, it

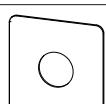
IP65

SRT1
058873

5 off

Emergency-stop labels

Blank, yellow



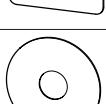
Square
50 × 50 mm

IP65

SO-GE
063263

5 off

Not suitable for engraving



Round
Ø 60 mm

IP65

SR-GE
063264

5 off

Inscription	Symbol	Part no. Article no.	Part no. Article no.	Std. pack
Marking plates				
—	■	01TQ18 086816	01TQ25 091121	20 off
—	□	02TQ18 086859	02TQ25 091149	
—	■	03TQ18 087766	03TQ25 091184	
—	■	04TQ18 087834	04TQ25 091442	
—	■	05TQ18 087867	05TQ25 091471	
—	■	06TQ18 087920	06TQ25 091506	
With customized inscription via Labeleditor → Notes	□	XQ18D-*-*¹⁾ 285286	XQ25D-*-*¹⁾ 285287	1 off
OFF	○	10TQ18 087951	10TQ25 091536	20 off
STOP or OFF	○	19TQ18 054510	19TQ25 054508	
ON	■	11TQ18 088007	11TQ25 091562	
START or ON	■	20TQ18 054509	20TQ25 054507	
START or ON	■	21TQ18 088061	21TQ25 091586	
Direction of movement	↑	32TQ18 088125	32TQ25 091618	
Direction of movement	↖	36TQ18 088275	36TQ25 092592	
Electr. voltage	⚡	34TQ18 095386	34TQ25 092563	
Increase	+	37TQ18 088315	37TQ25 092608	
Decrease	-	38TQ18 088340	38TQ25 092645	
Manual operation	↷	40TQ18 088389	40TQ25 092709	
Automatic	⌚	41TQ18 088412	41TQ25 092774	
ON-OFF, momentary	⊕	43TQ18 088426	43TQ25 092791	
Unlock	↳	52TQ18 088452	52TQ25 092825	
Lock	↲	53TQ18 088487	53TQ25 092874	
Unclamp	✚	54TQ18 088512	54TQ25 093013	
Clamp	✚	55TQ18 088545	55TQ25 093032	
Liquid START	▶		921TQ25 047426	
Liquid STOP	◀	63TQ18 088566	63TQ25 093060	
Klaxon	钲	66TQ18 088590	66TQ25 093092	
Spindle START	➡		811TQ25 053898	
Spindle STOP	⬅		814TQ25 047425	
ON-OFF, maintained	⌚	899TQ18 089232	899TQ25 093063	

Notes¹⁾ When ordering, complete part no. XQ18D-*-* or XQ25D-*-*.

1. Wildcard *△ color, e.g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)

2. Wildcard *△ file name generated by Labeleditor → Engineering, Page 74

Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

3.2

RMQ16 Pilot devices

Accessories

Moeller series

Button plates for pushbutton actuators
18 x 18 mm 25 x 25 mm

Inscription	Symbol	Part no. Article no.	Part no. Article no.	Std. pack
Marking plates				
Direction of movement	↗	911TQ18 089778	911TQ25 093100	20 off
Direction of movement	↖	912TQ18 090181	912TQ25 093135	
	0	80TQ18 088631	80TQ25 093134	
	1	81TQ18 088663	81TQ25 093158	
	2	82TQ18 088715	82TQ25 093178	
	3	83TQ18 088744	83TQ25 093197	
	4	84TQ18 088766	84TQ25 093224	
	5	85TQ18 088811	85TQ25 093241	
	6	86TQ18 089069	86TQ25 093257	
	7	87TQ18 089107	87TQ25 093288	
	8	88TQ18 089165	88TQ25 093305	
	9	89TQ18 089205	89TQ25 093329	
STOP	■		110TQ25 093363	
STOP	■		112TQ25 063748	
ARRET	■		310TQ25 091446	
START	■		111TQ25 093399	
START	□		122TQ25 063746	
MARCHE	■		311TQ25 091475	
AUS	■		117TQ25 093434	
AUS	■		113TQ25 063749	
OFF	■		217TQ25 090911	
ARRET	■		317TQ25 091508	
EIN	■		121TQ25 093461	
EIN	□		123TQ25 063747	
ON	■		221TQ25 090934	
MARCHE	■		321TQ25 091563	

Notes

Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

Inscription	Symbol	Part no. Article no.	Std. pack
Marking plates			
LINKS		134TQ25 093494	20 off
LEFT		234TQ25 090987	
GAUCHE		334TQ25 092567	
RECHTS		135TQ25 093527	
RIGHT		235TQ25 091009	
DROITE		335TQ25 092594	
ZU		153TQ25 090632	
CLOSE		253TQ25 091089	
FERME		353TQ25 092609	
AUF		172TQ25 090732	
UP		272TQ25 091124	
MONTEE		372TQ25 092711	
AB		173TQ25 090822	
DOWN		273TQ25 091152	
DESCENTE		373TQ25 092775	
RESET		287TQ25 091185	
VOR		190TQ25 090852	
ZURÜCK		191TQ25 090866	
Notes		Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139	

3.2

RMQ16 Pilot devices

Accessories

Moeller series

Inscription		Label mounts Q25T... with insert label	Insert plates for Q25T...-X label mount	Std. pack
Part no.	Article no.	Part no.	Article no.	
Marking plates				
Blank, black, suitable for engraving		Q25TS-01 046184	01S025 037986	20 off
Blank, aluminium-colored, suitable for engraving		Q25TS-02 046185	02S025 038074	
Blank, yellow, not suitable for engraving		Q25TGE-05 063259	05S025 063201	
AUS		Q25TS-117 046194		
EIN		Q25TS-121 046196		
ON		Q25TS-221 046197		
STOP		Q25TS-110 046190	110S025 038507	
START		Q25TS-111 046192		
Störung		Q25TS-150 046198		
FAULT		Q25TS-250 046199		
DÉFAUT		Q25TS-386 072306	386S025 072302	
Betrieb		Q25TS-183 046201		
EN SERVICE		Q25TS-383 046204		
HAND 0 AUTO		Q25TS-197 072305		
MAN. 0 AUTO		Q25TS-397 072307		
NOT-AUS		Q25TGE-199 063260	199S025 063200	
EMERGENCY STOP		Q25TGE-299 063261	299S025 063199	
RUN			283S025 038767	
EN SERVICE			383S025 038771	
ARRET D'URGENCE			399S025 048638	
-		Q25TS-10 046186	10S025 038268	
-		Q25TS-11 046187		
-		Q25TS-32 046188		
-		Q25TS-90 046189	90S025 038271	
-		Q25TS-93 072304	93S025 072300	
With customized inscription via Labeleditor → Notes	-	XQ25TS-*-* 109773		1 off

Notes

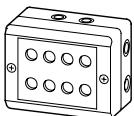
- When ordering, complete part no. XQ25TS-*-*:
 1. Wildcard * \triangleq color: AL = aluminium, B = black, Y = yellow
 2. Wildcard * \triangleq file extension

Color	RAL number	Part no. Article no.	Std. pack
-------	------------	-------------------------	-----------

Surface mounting enclosure, IP65¹⁾

For conventional wiring
with moulded cover fixing screws
Enclosure base: black (RAL 9005)
8 mounting locations
Knockout cable entry
Bottom: 4 x M20
Sides: 7 x M20

3



RAL 7035

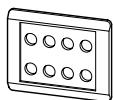
I8

046299

2 off

Flush mounting plate, IP65¹⁾

For conventional wiring
8 mounting locations



RAL 7035

E8

054423

1 off

RAL 9005

E8-SW

065212

1 off

Customized complete unit

Parameterizable

To order use form F0315 → Data sheet in Online Catalog



-

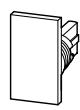
M16-COMBINATION

2010762

1 off

Blanking plates, IP65

For closing off of spare mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 × 37.5 mm

**●**

RAL 9005

025AS

036602

10 off

○

RAL 7035

025AGR

048641

■

RAL 1004

025AGE

048640

Label mounts without insert label

For additional marking of mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 × 37.5 mm
Suitable insert labels → Page 136

**●**

RAL 9005

025TS-X

036601

20 off

○

RAL 7035

025TGR-X

063257

■

RAL 1004

025TGE-X

063258

Notes

¹⁾ Unused mounting locations must be closed off with blanking plates.
Each used mounting location must be fitted with a label mount.

Type	Lifespan EN 60064, $t_a = +25^\circ\text{C}$	Color	Part no. Article no.	Std. pack
	$t_{\text{avg}} \text{ (AC)}$ h			

3

**Filament lamp W 2 × 4.6 d**

6 V/1.0 W	10000	—	WBGL6 090223	50 off
12 V/1.0 W	15000	—	WBGL12 089968	50 off
24 - 28 V/1.0 W	7000	—	WBGL24 089247	100 off

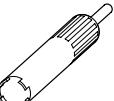
For AC/DC**Multiple LEDs W 2 × 4.6 d**

6 V/45 mA	60000		WBLED-GE6 055711	10 off
			WBLED-GN6 055712	
			WBLED-RT6 055713	
12 V/24 mA	60000		WBLED-GE12 055714	
			WBLED-GN12 055715	
			WBLED-RT12 055716	

**Single chip LED W 2 × 4.6 d**

Positive pole to X1,
Integral suppressor circuit up to 1000 V

18 - 30 V DC/7 - 12.5 mA	100000		LEDWB-Y 208724	10 off
			LEDWB-G 208725	
			LEDWB-R 208726	
			LEDWB-W 208728	
			LEDWB-B 208727	

**Mounting ring tool**

For fixing nut with bulb extractor

—	—	—	R16-MS 090297	10 off
---	---	---	-------------------------	--------

**Insulated ferrule**

For fast-on connector 2.8 × 0.8 mm, plug-in type from front
 $U_e > 50 \text{ V AC}$, $U_e > 120 \text{ V DC}$

—	—	—	ISH2.8 090267	100 off
---	---	---	-------------------------	---------

**Fast-on connector**2.8 × 0.8 mm for conductor cross-section 0.5 - 1 mm²

—	—	—	LT306.022.3 058863	100 off
---	---	---	------------------------------	---------

**Blanking plugs, IP65**

For closing off of spare mounting locations

For grid dimension 18 × 18 mm	—		Q18BS 037985	10 off
For grid dimension 25 × 25 mm	—		Q25BS 036976	10 off

**Anti-rotation tab**

Guard-ring as anti-rotation tab for all RMQ16 buttons

—	—	—	VS 046301	50 off
---	---	---	---------------------	--------

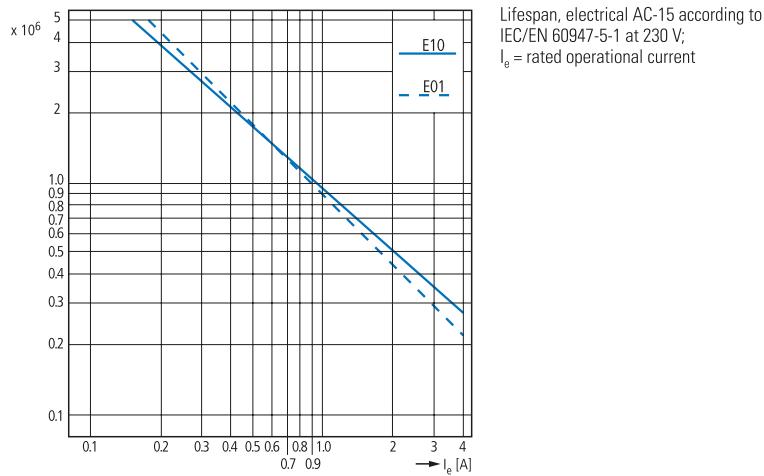
For use with	Color	Part no. Article no.	Std. pack
Screw adapter, IP20			
Conductor cross-sections 1 × 1.5 mm ² , 2 × 0.75 mm ²			
For N/C contacts	● Red	SRA01 028101	20 off
For N/O contacts	● Green	SRA10 028100	
For lamp socket	● Black	SRAL 028099	
Individual key			
Standard lock mechanism, black, each color corresponds to a specific lock mechanism			
—	● Black	ES16 065190	10 off
—	● Green	ES16-GN 030742	5 off
—	● Red	ES16-RT 030741	
—	○ White	ES16-WS 030743	
—	● Blue	ES16-BL 030744	
Transparent insert plates			
For better light diffusion			
For grid dimension 18 × 18 mm	■ Grey	01LQ18 090231	20 off
For grid dimension 25 × 25 mm	■ Grey	01LQ25 093180	
Lenses for illuminated pushbutton			
With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	—	XQ18LT-*-* 285288	1 off
For grid dimension 25 × 25 mm	—	XQ25LT-*-* 285299	
Lenses for indicator lights, flush			
With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	—	XQ18LF-*-* 285310	1 off
For grid dimension 25 × 25 mm	—	XQ25LF-*-* 285311	
Insert labels for label mounts			
For laser inscription with Labeleditor → Notes			
For Q25TS...	—	XQ25TS-*-* 109773	1 off
Notes		When ordering, complete part no. XQ...-*-*: 1. Wildcard * ≡ color, e. g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black) 2. Wildcard * ≡ file name generated by Labeleditor → Engineering, Page 74	

Technical data

3

	Contact elements	Illuminated push-button actuators (maintained)	Illuminated selector switch actuators	Indicator lights	
General					
Standards	IEC/EN 60947, VDE 0660				
Lifespan, mechanical	Operations $\times 10^6$	> 100	> 30	> 3	
Operating frequency	Operations/h	≤ 3600	≤ 1800	≤ 1800	
Operating force	N	3	4	—	
Operating torque	Nm	—	—	≤ 0.2	
Degree of protection, IEC/EN 60529		IP20 with ISH2.8	IP65	IP65	
Climatic proofing		Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient air temperature					
Open	°C	-25 - +60	-25 - +60	-25 - +60	
Enclosed	°C	-25 - +40	-25 - +40	-25 - +40	
Mounting position		any	any	any	
Mechanical shock resistance to IEC 60068-2-27	g	> 40	> 40	> 40	
Shock duration 11 ms, half-sinusoidal					
Terminal capacity	mm ²	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	
Blade terminal		2.8 × 0.8 mm to DIN 46244			
Fast-on connector		2.8 × 0.8 mm to DIN 46247 and IEC 60760			
Contacts					
Rated impulse withstand voltage	U _{imp}	V AC	4000	800	
Rated insulation voltage	U _i	V	250	250	
Overvoltage category/degree of pollution		III/3	III/3	III/3	
Rated operating voltage	U _e	V AC	250	24	
Control circuit reliability					
At 24 V DC/5 mA	H _F	Fault probability	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations)	—	
At 5 V DC/1 mA	H _F	Fault probability	< 5 × 10 ⁻⁶ (i.e. 1 failure to 5 × 10 ⁶ operations)	—	
Use of ISH insulated ferrule 2.8		On > 24 V AC/DC recommended On > 50 V AC or 120 V DC mandatory, also on unoccupied blade terminals			
Max. short-circuit protective device					
fuseless		Part no.	FAZ-B6/1	—	
Fuse	gG/gL	A	10	—	
Switching capacity					
Rated operational current					
AC-15					
24 V	I _e	A	4	—	
48 V	I _e	A	4	—	
110 V	I _e	A	4	—	
230 V	I _e	A	4	—	
DC-13					
24 V	I _e	A	3	—	
42 V	I _e	A	1	—	
60 V	I _e	A	0.8	—	
110 V	I _e	A	0.5	—	
220 V	I _e	A	0.2	—	

		Pushbuttons (maintained)	Changeover switches	Key-operated actuator	Emergency-stop pushbuttons
General					
Standards		IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	$\times 10^6$ > 3	> 3	> 3	> 0.1
Operating frequency	Operations/h	≤ 1800	≤ 1800	≤ 1800	≤ 600
Operating force	N	4	—	—	25
Operating torque	Nm	—	0.2	0.4	—
Degree of protection, IEC/EN 60529		IP65	IP65	IP65	IP65
Climatic proofing		Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient air temperature					
Open	°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Enclosed	°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position		any	any	any	any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal	g	> 40	> 40	> 40	> 40
Terminal capacity	mm ²	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal		2.8 × 0.8 mm to DIN 46244			
Fast-on connector		2.8 × 0.8 mm to DIN 46247 and IEC 60760			



3.4

RMQ16 Pilot devices

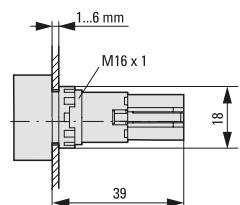
Dimensions

Moeller series

Dimensions

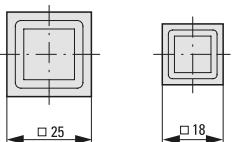
Actuating and indicator elements

Square style



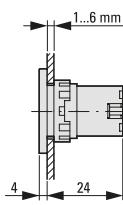
Q...D-...

Q...DR-...

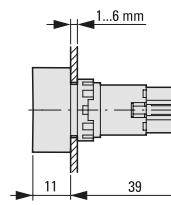


Q...S...

Q...BS



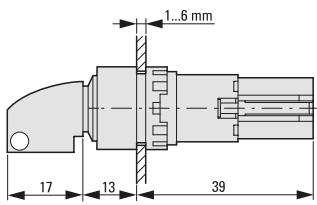
Q...WK...



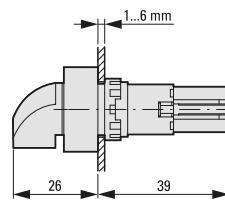
Q...LT-...

Q...LTR-...

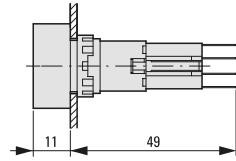
Q...LF-...



Q...LH-...

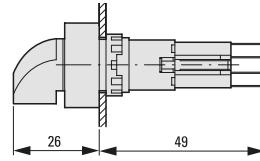
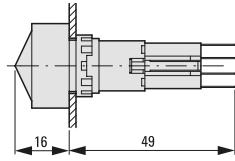


Q...LWK...



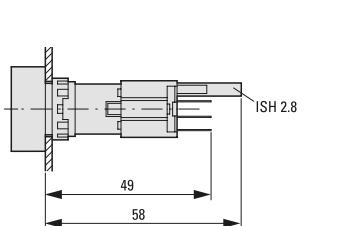
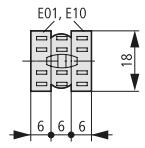
Q25PV...

Q25LPV...

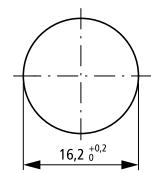


Front mount

Q18, Q25, E89, SRA, VS, M16

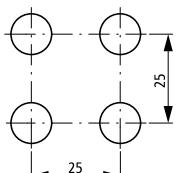


Drilling dimensions



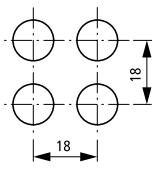
Grid dimension to IEC/EN 60947

Q25

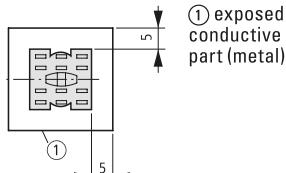


Minimum grid dimension

Q18

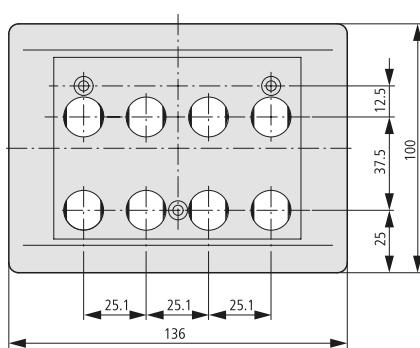


Mounting distance



Flush mounting plate

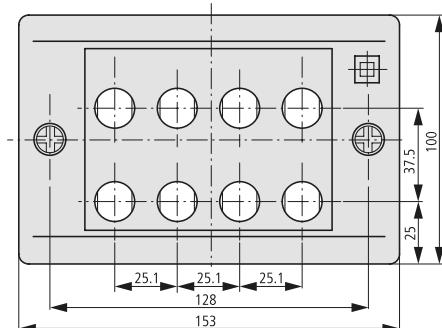
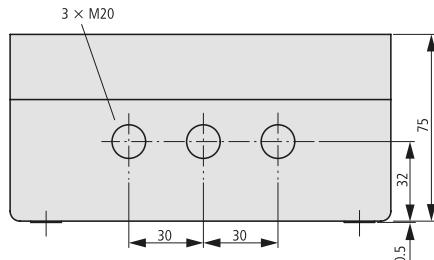
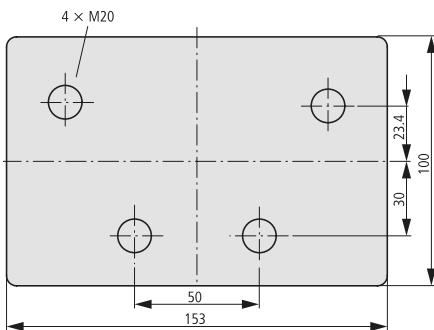
E8...



Size of cutout: 92 mm × 94 mm

Housing extension RMQ16

I8...

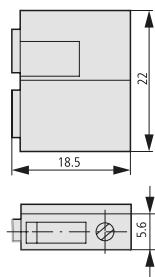


Fixing hole: 2 x Ø 4.5 mm

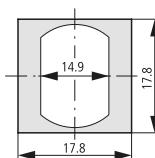
Distance: 128 mm

RMQ16 screw adapters

SRA...

**Anti-rotation tab**

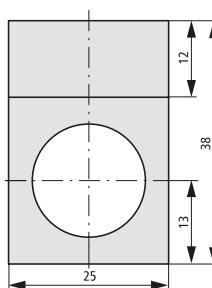
VS



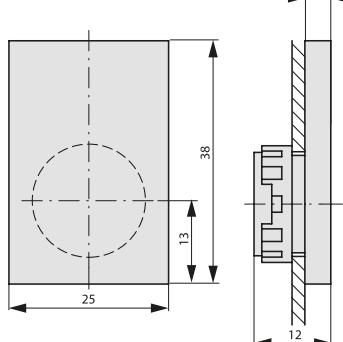
3

Label mounts RMQ16

025TS...

**Blanking plates**

Q25AS



Build it in.



Foot and Palm Switches for Universal Use in all Kinds of environments

The large actuation surface on our heavy-duty FAK foot and palm switches makes them both intuitive and quick to use. In addition, they feature a tamper-proof design, preventing tampering during use. FAK devices can be actuated by hand, fist, elbow, or foot, ensuring that quick action can be taken to protect personnel and property whenever necessary. Finally, a high degree of shock resistance and extremely high IP67, IP69K degrees of protection make FAK units the ideal device for rugged applications.

FAK foot and palm switches with a red actuation surface on a yellow background are approved for use as emergency stop buttons. They perfectly match the characteristics required in DIN EN 60204, Safety of machinery – Electrical equipment of machines, and meet all relevant requirements. Moreover, the devices are tamper-proof (see IEC 60947-5) and feature positive-opening contacts (see IEC 60947-5-1).

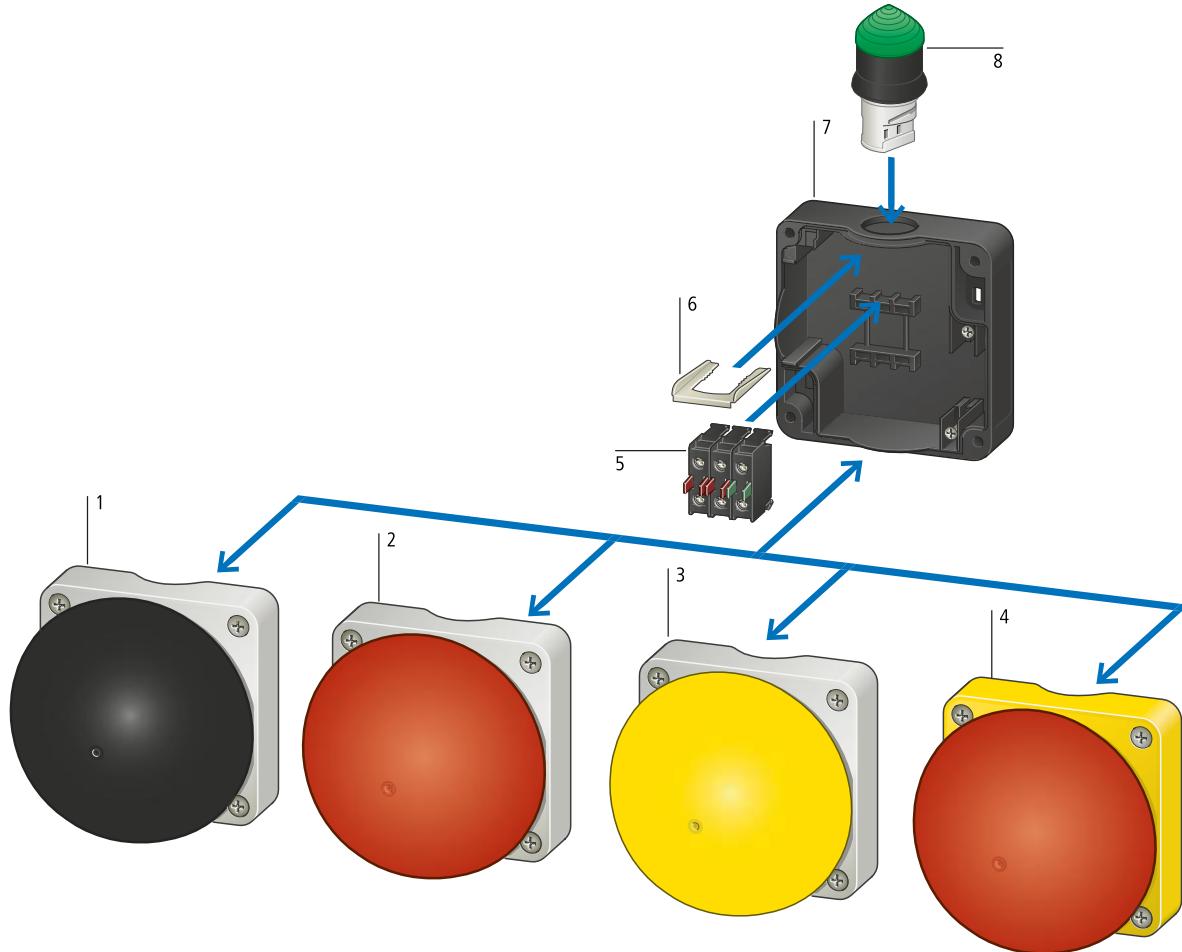
www.eaton.eu/rmq

FAK

**4.0 FAK foot and palm switch**

4.0 System overview	145
4.1 Product selection	
Complete units, individual components	146
4.2 Technical data, dimensions.....	147

4

System overview**Enclosure base**

Prepared for contact elements

Base fixing

(not for ...SMC... contacts)

→ Page 146

7

Operator only with button

Various color combinations

Yellow/red for Emergency stop or
emergency switching off
applicationsEuropean Machinery Safety
Directive 2006/42/EC

For foot or hand operation

→ Page 146

Contact elements

Base fixing

→ Page 48

5

Indicator lights

Conical

BA9s base

→ Page 33

6, 8

Product selection

4

Contact configuration:
 ⊖ = Safety function by
 positive opening according to
 IEC/EN 60947-5-1

N/O = normally open contact N/C = normally closed contact

Contact sequence

Approval mark

Part no.
Article no.

Std. pack

Foot and palm switches FAK, IP67, IP69K

momentary	1 N/O	1 N/C ⊖		 FAK-S/KC11/I 229749	1 off
momentary	1 N/O	1 N/C ⊖		 FAK-R/KC11/I 229746	1 off
maintained	Pull to release Emergency-stop button tamper-proof to ISO 13850/EN 418	–		FAK-R/V/KC01/IY 229747	1 off
		1 N/O		FAK-R/V/KC11/IY 229748	
		–		FAK-R/V/KC02/IY 256790	

Customized complete units

An order consists of: enclosure base, enclosure top, contact elements for base fixing (→ Page 48)

	FAK-COMBINATION 2010763	1 off
Enclosure base For max. 3 contact elements	FAK-IU 229753	1 off
Enclosure top	FAK-S 095540	1 off
momentary	–	
	FAK-R 071810	
momentary	–	
	FAK-Y 229754	
momentary	–	
	FAK-R/V/Y 229755	
maintained	–	

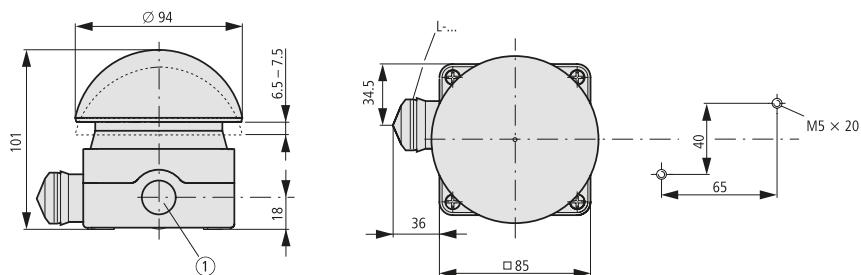
Technical data

		FAK foot and palm switch	
		momentary	maintained
General			
Standards		IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	$\times 10^6$	1
Operating frequency	Operations/h		≤ 3600
Operating force	N	20 - 40	40 - 60
Degree of protection, IEC/EN 60529		IP67, IP69K	IP67, IP69K
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Ambient air temperature			
Open	°C	-25 - +40	-25 - +40
Mounting position		any	any
Mechanical shock resistance to IEC 60068-2-27	g	> 15	> 15
Shock duration 11 ms, half-sinusoidal			

4

Dimensions

FAK...



① 3 x M20 (Pg 13.5) lateral
1 x M16 in the base

Build it in.



Signal Operating States Quickly, Clearly, and Flexibly



SL7/SL4 signal towers configurator
www.eaton.eu/config/SL

SL4 and SL7 signal towers are used to continuously signal operating states for machines, systems, and processes. Their scope of application is extremely wide-ranging, going from production, through logistics, all the way to retail. This is in no small part thanks to the fact that the fast and clear signaling they provide ensures smooth and safe operation in any environment.

The light and acoustic modules in the series can be configured flexibly both in terms of volume and of the specific visual signals they emit. This versatility is only further enhanced by the signal towers' high-performance LEDs, which ensure that visual signals are recognized even under adverse light conditions. Moreover, a high IP66 degree of protection makes it possible to use the signal towers in demanding environments, such as outdoors.

With a diameter of 40 mm / 70 mm, SL4 and SL7 signal towers feature extremely compact dimensions designed to save space. In addition, only a few steps are required in order to quickly and easily install and remove them, which can prove to be a tremendous advantage when packing and transporting control panels or machines.

Connecting the signal towers to a SmartWire-DT communication system cuts down on wiring time and reduces the number of digital outputs required from your PLC. This, combined with the fact that data from the switchgear connected with SmartWire-DT will be processed in your PLC, ensures that operating states such as impending overloads will be detected and signaled with the signal towers immediately. The result? A marked increase in your systems' availability.

SL4/SL7

**5.0 Signal towers****5.1 System overview**

SL4 – System	150
------------------------	-----

5.2 Product selection

SL4 – Complete devices, light modules	152
SL4 – Light modules	153
SL4 – Light modules, acoustic modules	155
SL4 – Base modules	156
SL4 – Base modules, accessories	157

5

5.3 System overview

SL7 – System	158
------------------------	-----

5.4 Product selection

SL7 – Complete devices, light modules	160
SL7 – Light modules	161
SL7 – Acoustic modules	164
SL7 – Base modules	165
SL7 – Base modules, accessories	166

5.5 Technical data

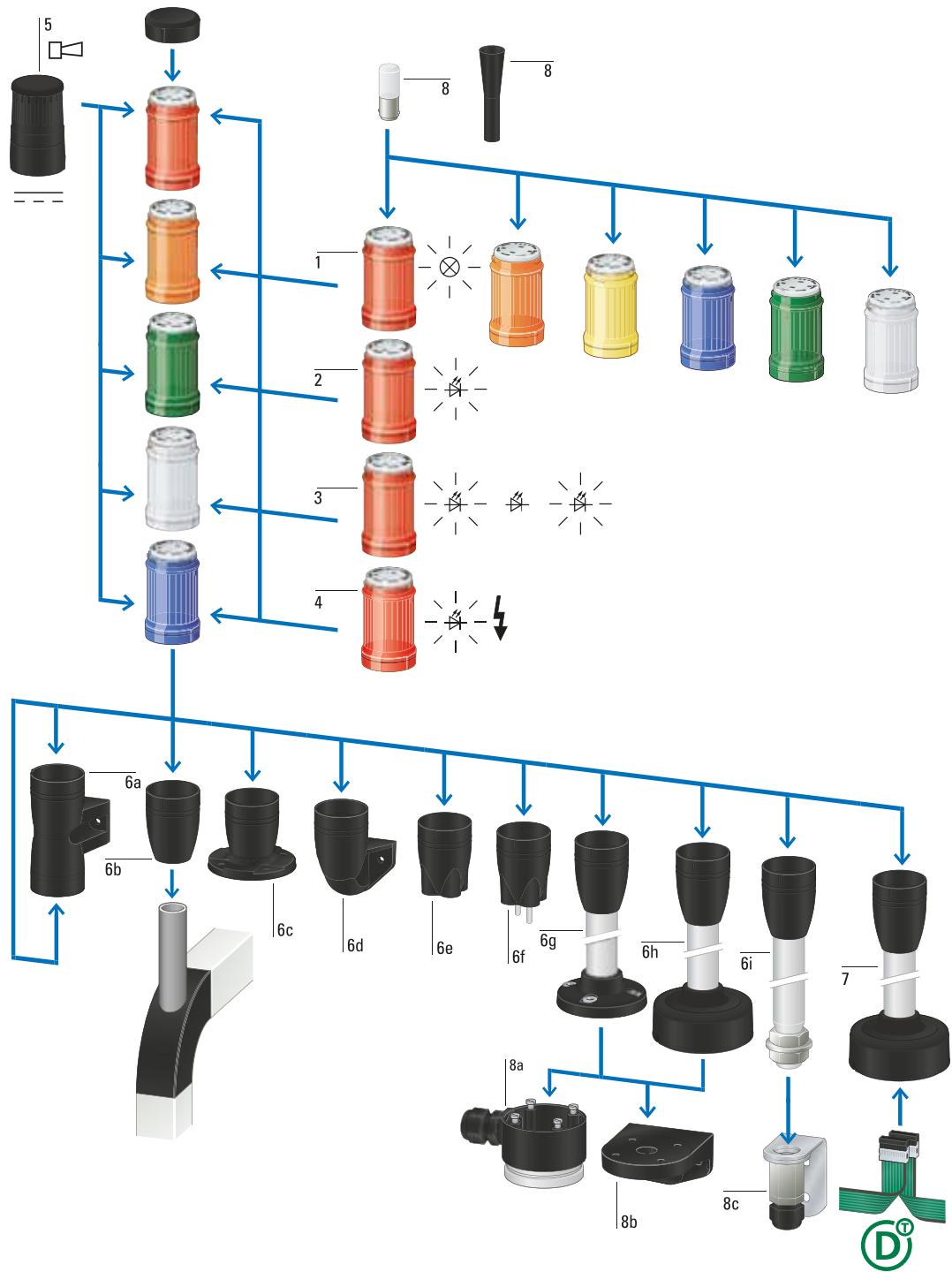
SL4 – Technical data	167
SL7 – Technical data	169

5.6 Dimensions

SL4 – Dimensions	171
SL7 – Dimensions	175

System overview

5



Module for filament lamp, continuous light	1	Acoustic module	5	Base module with base adapter for slipping onto place (rapid mounting and wiring system)	6h
Without light element (filament lamp with BA15d socket)		Continuous tone or pulsed tone - adjustable with internal dip switches		Aluminium tube 100 mm, 250 mm or 400 mm	
Easy mounting with bayonet mount		Sound pressure 80 dB, frequency 4000 Hz		→ Page 156	
Modules can be arranged in any order		Easy mounting with bayonet mount			
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Set up as topmost module			
Degree of protection IP66		Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)			
Operating mode: 100% DF (duty factor)		Degree of protection IP66			
→ Page 155		Permanently integrated cover plate			
Module with LED, continuous light	2	Operating mode: 100% DF (duty factor)			
Easy mounting with bayonet mount		→ Page 155			
Modules can be arranged in any order		Base module for mounting on both sides	6a	Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	7
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Easy mounting with bayonet mount		Aluminium tube 100 mm	
Degree of protection IP66		Degree of protection IP66		→ Page 156	
Operating mode: 100% DF (duty factor)		With cover plate			
→ Page 152		With Push in terminals			
Module with LED, flashing light	3	→ Page 157			
Easy mounting with bayonet mount		Base module can hold tubes	6b	Magnetic base including M20 cable gland	8a
Modules can be arranged in any order		→ Page 156		For vertical mounting	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Base module with external fixing holes	6c	→ Page 157	
Degree of protection IP66		→ Page 156			
Operating mode: 100% DF (duty factor)		Base module one-sided with bracket	6d	Mounting bracket	8b
Flashing frequency 2 Hz		→ Page 157		For vertical mounting	
→ Page 153		Base module with internal (on the inside) fixing holes	6e	→ Page 157	
Module with LED, strobe light	4	→ Page 156			
With a fixed flashing frequency 1.4 Hz		Base module with built-in (pre-assembled) fixing screws	6f	Accessories	8c
With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)		→ Page 156		Tool for replacing filament lamp	
Easy mounting with bayonet mount		Base module with aluminium tube and plastic foot	6g	Filament lamp	
Modules can be arranged in any order		Aluminium tube 100 mm, 250 mm or 400 mm		→ Page 157	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		→ Page 157			
Degree of protection IP66					
Operating mode: 100% DF (duty factor)					
→ Page 154					

5

Product selection

5



Rated operational voltage U _e V	Number of modules	Color	Function	Part no. Article no.	Std. pack
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Complete units

Continuous light LED IP66 Base module with foot and 100 mm spacer	24 V AC/DC	2			SL4-100-L-RG-24LED 171295	1 off
		3			SL4-100-L-RYG-24LED 171296	

Module with LED

Continuous light IP66	24 V AC/DC			SL4-L24-B 171313	1 off
				SL4-L24-G 171314	
				SL4-L24-R 171315	
				SL4-L24-W 171316	
				SL4-L24-Y 171317	
				SL4-L24-A 171318	
	110/120 V AC			SL4-L120-B 171319	
				SL4-L120-G 171320	
				SL4-L120-R 171321	
				SL4-L120-W 171322	
				SL4-L120-Y 171323	
				SL4-L120-A 171324	
	230/240 V AC			SL4-L230-B 171325	
				SL4-L230-G 171326	
				SL4-L230-R 171327	
				SL4-L230-W 171328	
				SL4-L230-Y 171329	
				SL4-L230-A 171330	

Rated operating voltage U _e V	Color	Function	Part no. Article no.	Std. pack
Module with LED				
Flashing light IP66 2 Hz	24 V AC/DC		SL4-BL24-B 171337	1 off
			SL4-BL24-G 171338	
			SL4-BL24-R 171339	
			SL4-BL24-W 171340	
			SL4-BL24-Y 171341	
			SL4-BL24-A 171342	
110/120 V AC	24 V		SL4-BL120-B 171343	
			SL4-BL120-G 171344	
			SL4-BL120-R 171345	
			SL4-BL120-W 171346	
			SL4-BL120-Y 171347	
			SL4-BL120-A 171348	
230/240 V AC	24 V		SL4-BL230-B 171349	
			SL4-BL230-G 171350	
			SL4-BL230-R 171351	
			SL4-BL230-W 171352	
			SL4-BL230-Y 171353	
			SL4-BL230-A 171354	

5



	Rated operating voltage U _e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Strobe light IP66 1.4 Hz	24 V AC/DC			SL4-FL24-B 171355	1 off
				SL4-FL24-G 171356	
				SL4-FL24-R 171357	
				SL4-FL24-W 171358	
				SL4-FL24-Y 171359	
				SL4-FL24-A 171360	
	110/120 V AC			SL4-FL120-B 171361	
				SL4-FL120-G 171362	
				SL4-FL120-R 171363	
				SL4-FL120-W 171364	
				SL4-FL120-Y 171365	
				SL4-FL120-A 171366	
	230/240 V AC			SL4-FL230-B 171367	
				SL4-FL230-G 171368	
				SL4-FL230-R 171369	
				SL4-FL230-W 171370	
				SL4-FL230-Y 171371	
				SL4-FL230-A 171372	
Multistrobe light IP66 LED for effective signaling effect With various strobe sequences 1 - 2.6 Hz	24 V AC/DC			SL4-FL24-B-M 171373	1 off
				SL4-FL24-G-M 171374	
				SL4-FL24-R-M 171375	
				SL4-FL24-W-M 171376	
				SL4-FL24-Y-M 171377	
				SL4-FL24-A-M 171378	





Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Module for filament lamp				
Continuous light	< 250 V AC/DC			SL4-L-B 171331
IP66				SL4-L-G 171332
Without lamp				SL4-L-R 171333
Filament lamp max. 4 W				SL4-L-W 171334
Filament lamp → Page 157				SL4-L-Y 171335
				SL4-L-A 171336

5



Rated operating voltage U_e V	Rated operational current I_e mA	Color	Function	Type of tone	Part no. Article no.	Std. pack
Acoustic modules						
Continuous tone or pulsed tone, adjustable with internal dip switches.						
Sound pressure 80 db, adjustable with internal potentiometer						
f = 4000 Hz						
Place only at the highest position on a pillar						
IP66						
24 V AC/DC	Max. 39			— — —	SL4-AP24 171379	1 off
110/120 V AC	Max. 21				SL4-AP120 171380	
230/240 V AC	Max. 21				SL4-AP230 171381	
Customized complete unit						
Order please enquire						
—	—	—	—	—	SL4-COMBINATION 2011956	1 off

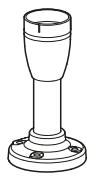


Tube length	Color	For use with	Part no.
			Article no.

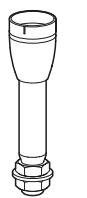
Std. pack

Base modules

For horizontal mounting
including cover
max. 5 modules



Base with aluminium tube and plastic foot Push in terminals	100 mm 250 mm 400 mm 800 mm	Black Aluminum color tube	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-100 171297 SL4-PIB-250 171298 SL4-PIB-400 171299 SL4-PIB-800 177313	1 off
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Base with aluminum tube and banjo bolt Push in terminals	100 mm 250 mm 400 mm 800 mm			SL4-PIB-T-100 171305 SL4-PIB-T-250 171306 SL4-PIB-T-400 171307 SL4-PIB-T-800 178461
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Base with external fixing holes Push in terminals	–	Black	SL4-PIB-EMH 171302
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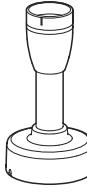
Base with internal (on the inside) fixing holes Push in terminals	–	SL4-PIB-IMH 171300
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Base with built-in (pre-assembled) fixing screws Push in terminals	–	SL4-PIB-IMS 171301
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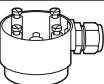
Base: Can hold tubes with a diameter of 25 mm (±0.5) for wall thickness 2 - 3.4 mm	–	SL4-PIB-TM 179986
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Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm 250 mm 400 mm 800 mm	Black Aluminum color tube	SL4-FMS-100 171308 SL4-FMS-250 171309 SL4-FMS-400 171310 SL4-FMS-800 178463
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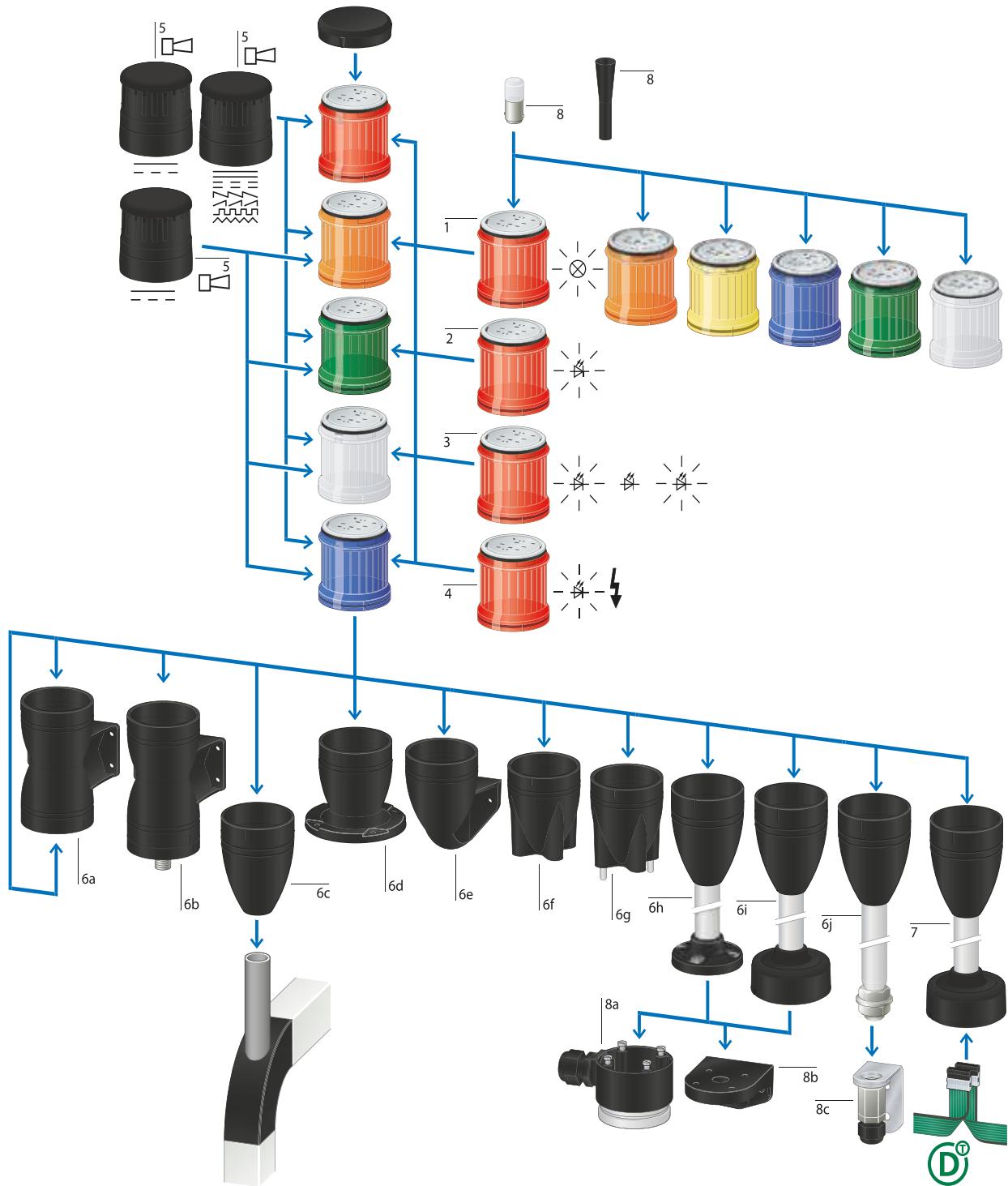


Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Parameterizable with SWD-Assist (planning and ordering help)	100 mm	SL4-SWD 171311
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	Color	For use with	Part no. Article no.	Std. pack
Base modules				
	For vertical mounting including cover			
One-sided base with bracket Push in terminals max. 5 modules				
	Black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-FW 171303	1 off
For vertical mounting on both sides including cover				
	Base with external fixing holes Push in terminals max. 2 x 5 modules	Black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-D 171304
Mounting bracket				
	For vertical mounting, insulated material	–	SL4-PIB... SL7-CB...	SL7/4-FW 171446
Including mounting bracket M20 cable gland				
	For vertical mounting, metal	–	SL4-PIB-T... SL7-CB-T...	SL7/4-FW-T 171455
Tool for replacing filament lamp				
	–	–	SL4-L... SL7-L...	SL7/4-BET 171294
Magnetic base including M20 cable gland				
	For vertical mounting, insulated material	–	SL4-PIB-100(250)(400) SL7-CB-100(250)(400)	SL7/4-MMS 172954
Lifespan	Rated operating voltage U_e	Power	For use with	Part no. Article no.
Filament lamp				
	Ba 15d socket			
> 3000 h	12 V	4 W	SL4-L-...	SL4-L12 171382
	24 V			SL4-L24 171383
	120 V			SL4-L120 171384
	230 V			SL4-L230 171385

System overview

5



Module for filament lamp, continuous light	1
Without light element (filament lamp with BA15d socket)	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 163	
Module with LED, continuous light	2
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 163	
Module with LED, flashing light	3
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
Flashing frequency 2 Hz	
→ Page 161	
Module with LED, strobe light	4
With a fixed flashing frequency 1.4 Hz	
With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 162	

Acoustic module	5
Easy mounting with bayonet mount	
Set up as topmost module	
Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Permanently integrated cover plate	
Operating mode: 100% DF (duty factor)	
Sound pressure 80 dB, frequency 4000 Hz	
→ Page 164	
Acoustic module	5a
Continuous tone or pulsed tone - adjustable with internal dip switches	
Frequency: 2800 Hz	
→ Page 164	
Acoustic module	5b
Multi-tone (8 tones) - adjustable with internal dip switch	
Frequency 500 - 2700 Hz	
→ Page 164	
Acoustic module	5b
Continuous tone or pulsed tone - can be actuated externally; takes up 2 inputs (2 modules)	
Frequency: 2800 Hz	
→ Page 164	
Base module for mounting on both sides	6a
Easy mounting with bayonet mount	
Degree of protection IP66	
With cover plate	
With Push in terminals	
→ Page 166	
Base module for vertical mounting on one sides	6b
Plug-in connection M22	
→ Eaton Online Catalog	
Base module can hold tubes	6c
→ Page 165	
Base module with external fixing holes	6d
→ Page 165	
Base module one-sided with bracket	6e
→ Page 166	
Base module with internal (on the inside) fixing holes	6f
→ Page 165	
Base module with built-in (pre-assembled) fixing screws	6g
→ Page 165	
Base module with aluminium tube and plastic foot	6h
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 165	
Base module with base adapter for slipping onto place (rapid mounting and wiring system)	6i
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 165	
Base module with aluminum tube and screw fixing	6j
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 165	
Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	7
Aluminium tube 100 mm	
→ Page 165	
Accessories	8
Magnetic base including M20 cable gland	8a
For vertical mounting	
→ Page 157	
Mounting bracket	8b
For vertical mounting	
→ Page 157	
Accessories	8c
Tool for replacing filament lamp	
Filament lamp	
→ Page 157	

5

Product selection

5



	Rated operating voltage U _e V	Number of modules	Color	Function	Part no. Article no.	Std. pack
Complete units						
Continuous light LED IP66 Base module with foot and 100 mm spacer	24 V AC/DC	2			SL7-100-L-RG-24LED 171424	1 off
		3			SL7-100-L-RYG-24LED 171425	
Module with LED						
Continuous light IP66	24 V AC/DC				SL7-L24-B 171461	1 off
					SL7-L24-G 171462	
					SL7-L24-R 171463	
					SL7-L24-W 171464	
					SL7-L24-Y 171465	
					SL7-L24-A 171466	
	110/120 V AC				SL7-L120-B 171467	
					SL7-L120-G 171468	
					SL7-L120-R 171469	
					SL7-L120-W 171470	
					SL7-L120-Y 171471	
					SL7-L120-A 171472	
	230/240 V AC				SL7-L230-B 171473	
					SL7-L230-G 171474	
					SL7-L230-R 171475	
					SL7-L230-W 171476	
					SL7-L230-Y 171477	
					SL7-L230-A 171426	

	Rated operating voltage U _e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Flashing light IP66 2 Hz	24 V AC/DC			SL7-BL24-B 171439	1 off
				SL7-BL24-G 171440	
				SL7-BL24-R 171441	
				SL7-BL24-W 171442	
				SL7-BL24-Y 171388	
				SL7-BL24-A 171389	
110/120 V AC				SL7-BL120-B 171390	
				SL7-BL120-G 171391	
				SL7-BL120-R 171392	
				SL7-BL120-W 171393	
				SL7-BL120-Y 171394	
				SL7-BL120-A 171395	
230/240 V AC				SL7-BL230-B 171396	
				SL7-BL230-G 171397	
				SL7-BL230-R 171398	
				SL7-BL230-W 171399	
				SL7-BL230-Y 171400	
				SL7-BL230-A 171401	

5



	Rated operating voltage U _e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Strobe light IP66 1.4 Hz	24 V AC/DC			SL7-FL24-B 171402	1 off
				SL7-FL24-G 171403	
				SL7-FL24-R 171404	
				SL7-FL24-W 171405	
				SL7-FL24-Y 171406	
				SL7-FL24-A 171407	
110/120 V AC				SL7-FL120-B 171408	
				SL7-FL120-G 171409	
				SL7-FL120-R 171410	
				SL7-FL120-W 171411	
				SL7-FL120-Y 171412	
				SL7-FL120-A 171413	
230/240 V AC				SL7-FL230-B 171414	
				SL7-FL230-G 171415	
				SL7-FL230-R 171416	
				SL7-FL230-W 171417	
				SL7-FL230-Y 171418	
				SL7-FL230-A 171419	

	Rated operating voltage U _e V	Color	Function	Part no. Article no.	Std. pack
Module with high power LED					
Continuous light	24 V AC/DC			SL7-L24-B-HP 171427	1 off
IP66				SL7-L24-G-HP 171428	
High-performance LED for maximum signaling effect				SL7-L24-R-HP 171429	
High Performance LED				SL7-L24-W-HP 171430	
				SL7-L24-Y-HP 171431	
				SL7-L24-A-HP 171432	
Strobe light	24 V AC/DC			SL7-FL24-B-HP 171420	
IP66				SL7-FL24-G-HP 171421	
High-performance LED for maximum signaling effect				SL7-FL24-R-HP 171422	
High Performance LED				SL7-FL24-W-HP 171423	
1.4 Hz				SL7-FL24-Y-HP 171273	
				SL7-FL24-A-HP 171274	
Multistrobe light	24 V AC/DC			SL7-FL24-B-HPM 171275	
IP66				SL7-FL24-G-HPM 171276	
High-performance LED for maximum signaling effect				SL7-FL24-R-HPM 171277	
High Performance LED				SL7-FL24-W-HPM 171278	
1 - 2.6 Hz				SL7-FL24-Y-HPM 171279	
				SL7-FL24-A-HPM 171280	
Module for filament lamp					
Continuous light	< 250 V AC/DC			SL7-L-B 171433	1 off
IP66				SL7-L-G 171434	
Without lamp				SL7-L-R 171435	
Filament lamp max. 7 W				SL7-L-W 171436	
Filament lamp				SL7-L-Y 171437	
→ Page 166				SL7-L-A 171438	

Rated operating voltage	Rated operational current	Color	Function	Type of tone	Part no.	Std. pack
U_e	I_e					
V	mA					

Acoustic modules

Continuous tone or pulsed tone, adjustable with internal dip switches.
Sound pressure 100 db, adjustable with internal potentiometer
 $f = 2800$ Hz

Place only at the highest position on a pillar
IP66



24 V AC/DC	Max. 92				SL7-AP24 171281	1 off
110/120 V AC	Max. 41				SL7-AP120 171282	
230/240 V AC	Max. 43				SL7-AP230 171283	

Continuous tone or pulsed tone, external actuation.
Assigned two inputs (2 modules).
Sound pressure 100 db, adjustable with internal potentiometer
 $f = 2800$ Hz

Place only at the highest position on a pillar
IP66



24 V AC/DC	Max. 92				SL7-AP24-E 171284	1 off
110/120 V AC	Max. 41				SL7-AP120-E 171285	
230/240 V AC	Max. 43				SL7-AP230-E 171286	

Multi-tone; 8 tones, adjustable with internal dip switch.
Sound pressure 100 db, adjustable with internal potentiometer
 $f = 500 - 2700$ Hz

Place only at the highest position on a pillar
IP66



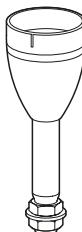
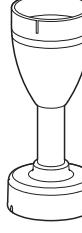
24 V AC/DC	Max. 115				SL7-AP24-M 171287	1 off
110/120 V AC	Max. 45				SL7-AP120-M 171288	
230/240 V AC	Max. 43				SL7-AP230-M 171289	

Customized complete unit

Order please enquire



-	-	-	-	-	SL7-COMBINATION 2011955	1 off
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	Tube length	Color	For use with	Part no. Article no.	Std. pack
Base modules					
For horizontal mounting including cover max. 5 modules					
	100 mm 250 mm 400 mm 800 mm	Black Aluminum color tube	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-100 171443 SL7-CB-250 171444 SL7-CB-400 171445 SL7-CB-800 177312	1 off
	100 mm 250 mm 400 mm 800 mm			SL7-CB-T-100 171452 SL7-CB-T-250 171453 SL7-CB-T-400 171454 SL7-CB-T-800 178460	
	–	Black		SL7-CB-IMH 171447	
	–			SL7-CB-IMS 171448	
	–			SL7-CB-EMH 171449	
	–			SL7-CB-TM 179987	
	100 mm 250 mm 400 mm 800 mm	Black Aluminum color tube		SL7-FMS-100 171456 SL7-FMS-250 171457 SL7-FMS-400 171458 SL7-FMS-800 178462	
	100 mm			SL7-SWD 171459	

**Base modules**

For vertical mounting, with cover, max. 5 modules

One-sided base with bracket
Spring-cage terminals

Color

For use with

Part no.

Article no.

Std. pack

SL7-CB-FW
171450

1 off

For vertical mounting on both sides, with cover,
max. 2 x 5 modulesBase with external fixing holes
Spring-cage terminals

Black

SL7-L-...
SL7-BL-...
SL7-FL-...
SL7-AP-...**SL7-CB-D**
171451

1 off

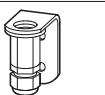
**Mounting bracket**

For vertical mounting, insulated material

– –

SL4-PIB...
SL7-CB...**SL7/4-FW**
171446

1 off

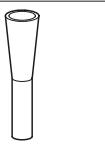
**Including mounting bracket M20 cable gland**

For vertical mounting, metal

– –

SL4-PIB-T...
SL7-CB-T...**SL7/4-FW-T**
171455

1 off

**Magnetic base including M20 cable gland**

For vertical mounting, insulated material

– –

SL4-PIB-100(250)|400)
SL7-CB-100(250)|400)**SL7/4-MMS**
172954

1 off

Lifespan	Rated operating voltage U_e	Power	For use with	Part no. Article no.	Std. pack
Filament lamp					
Ba 15d socket					
> 3000 h	12 V	5 W	SL7-L-...	SL7-L12 171290	1 off
	24 V	6.5 W		SL7-L24 171291	
	120 V	7 W		SL7-L120 171292	
	230 V	6.5 W		SL7-L230 171293	

Technical data

SL4-...

General					5
Standards		IEC/EN 60947-5-1, UL508			
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30			
Mounting position		any			
Mechanical shock resistance	g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus			
IEC degree of protection		IP66 IEC/EN 60529			
Degree of protection UL		Type 4, 4X, 13			
Material		Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)			
Color of lamp hood		blue, green, red, clear, yellow, orange, amber			
Ambient air temperature	°C	-30 - +60			
Number of signal elements		Max. 5 with standard base Max. 10 with base for mounting on both sides			
Terminal capacities					
Solid/flexible		mm ²	0.2 - 1.5		
Solid/flexible, with ferrule		mm ²	0.25 - 1.5		
Flexible with ferrule with plastic collar		mm ²	0.25 - 0.75		
		AWG 24 - AWG 16			
Contacts					
Rated impulse withstand voltage		U _{imp}	V AC	4000	
Rated insulation voltage		U _i	V	250	
Overvoltage category/degree of pollution				III/3	

	SL4-L-...-...	SL4-BL-...-...	SL4-FL-...-...	SL4-FL24-...-M	SL4-L...
Light modules					
Type of light	Continuous light	Flashing light	Strobe light	Multistrobe light	Continuous light
Lamp	LED				Filament lamp max. 4 W
Lamp holder	–	–	–	–	Ba15d
Flashing/strobe frequency	–	2 Hz	1.4 Hz	1 - 2.6 Hz	–
Transmission angle	360°				
Leakage current	A	< 0.003			
Current/power consumption					
24 V AC/DC	A	0.022 - 0.033	0.028 - 0.036	0.035 - 0.065	0.048 - 0.068
110/120 V AC	A	0.030	0.030	0.10	–
230/240 V AC	A	0.030	0.030	0.10	–
Power consumption	–	–	–	–	Max. 4 W with the specified voltages
Voltage range		24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %		24 V AC/DC ± 10 %	up to 250 V AC/DC
Lifespan	h	> 100000			
Weight	g	45			

SL4-AP...

Acoustic modules

Type of tone	Continuous or pulsed tone	
Types of sound	2 versions, → table of sound types	
Sound setting	built-in, 1 pole DIP	
Sound pressure	dB	80
Sound pressure level adjustment	-	
Sound pressure can be lowered to a minimum of	-	
Transmission angle	360°	
Current/power consumption		
24 V AC/DC	A	0.039
110/120 V AC	A	0.021
230/240 V AC	A	0.021
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %	
Weight	g	43

Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
Table of sound types					
SL4-AP...	Continuous tone	approx. 4000	—	—	80
	Pulse tone	approx. 4000	— — —	approx. 2 Hz	80

SL7-...

General		
Standards		IEC/EN 60947-5-1, UL508
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position		any
Mechanical shock resistance	g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus
IEC degree of protection		IP66 IEC/EN 60529
Degree of protection UL		Type 4, 4X, 13
Material		Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Color of lamp hood		blue, green, red, clear, yellow, orange, amber
Ambient air temperature	°C	-30 - +60
Number of signal elements		Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacities		
Solid/flexible	mm ²	0.13 - 2.5
Flexible with ferrule with plastic collar	mm ²	0.25 - 1.5
		AWG 24 - AWG 14
Contacts		
Rated impulse withstand voltage	U _{imp}	V AC 4000
Rated insulation voltage	U _i	V 250
Overtvoltage category/degree of pollution		III/3

5

	SL7-L-....-...	SL7-BL-....-....	SL7-FL-....-....	SL7-L24-...-HP	SL7-FL24-...-HP	SL7-FL24-...-HPM	SL7-L-...
Light modules							
Type of light	Continuous light	Flashing light	Strobe light	Continuous light	Strobe light	Multistrobe light	Continuous light
Lamp	LED			High Performance LED			Filament lamp max. 7 W
Lamp holder	–	–	–	–	–	–	Ba15d
Flashing/strobe frequency	–	2 Hz	1.4 Hz	–	1.4 Hz	1 - 2.6 Hz	–
Transmission angle	360°						
Leakage current	A	< 0.003					
Current/power consumption							
24 V AC/DC	A	0.049 - 0.054	0.058	0.130 - 0.135	0.170 - 0.200	0.260 - 0.265	0.260 - 0.265
110/120 V AC	A	0.028 - 0.031	0.028 - 0.030	0.010	–	–	–
230/240 V AC	A	0.027 - 0.028	0.030 - 0.031	0.010	–	–	–
Power consumption	–	–	–	–	–	–	Max. 7 W with the specified voltages
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			18-30 V DC/18-26 V AC			up to 250 V AC/DC
Lifespan	h	> 100000		> 50000		> 3000	
Weight	g	80					

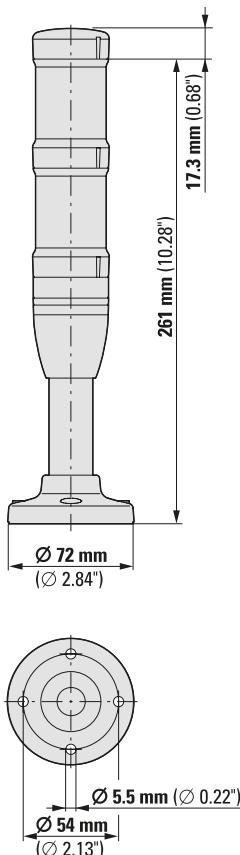
	SL7-AP...	SL7-AP...-E	SL7-AP...-M
Acoustic modules			
Type of tone	Continuous or pulsed tone		Continuous or pulsed tone 8 types of sound
Types of sound	2 versions, → table of sound types		8 versions, → table of sound types
Sound setting	Built-in, 1 pole DIP	Can be externally actuated	Built-in, 3 pole DIP
Sound pressure dB	100		
Sound pressure level adjustment	Built-in, potentiometer		
Sound pressure can be lowered to a minimum of	88 dB		
Transmission angle	360°		
Current/power consumption			
24 V AC/DC	A 0.092	0.092	0.115
110/120 V AC	A 0.041	0.041	0.045
230/240 V AC	A 0.043	0.043	0.043
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %		
Weight g	102		

	Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
Table of sound types						
SL7-AP...	Continuous tone	approx. 2800	—————	—	—	100
	Pulse tone	approx. 2800	— — —	approx. 2 Hz	—	100
SL7-AP...-E	Continuous tone	approx. 2800	—————	—	—	100
	Pulse tone	approx. 2800	— — —	approx. 2 Hz	—	100
SL7-AP...-M	Continuous tone	2700	—————	—	—	100
	Continuous tone	1350	—————	—	—	100
	Pulse tone	2700	— — —	250 ms on, 250 ms off	—	100
	Pulse tone	1350	— — —	250 ms on, 250 ms off	—	100
	Falling	1200 - 500		1 Hz	Evacuation, Germany, DIN 3304-3	98
	Rising	500 - 1200		Rising 3 s, 0.5 s off	Netherlands NEN 2575:2000	98
	Alternating	800 - 1000		2 Hz		94
	Rising/falling	500 - 1500		10 Hz		94

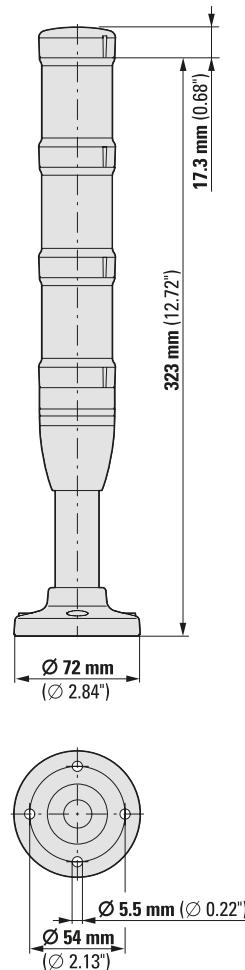
Dimensions

Complete units

SL4-100-L-RG-24LED



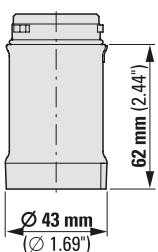
SL4-100-L-RYG-24LED



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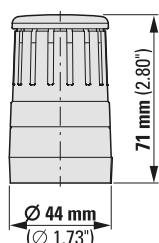
Light modules

SL4-(B)(F)L ...



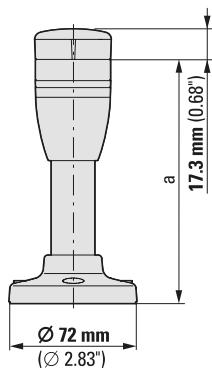
Acoustic modules

SL4-AP...



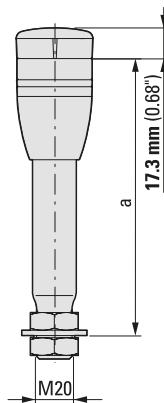
Base modules

SL4-PIB-...

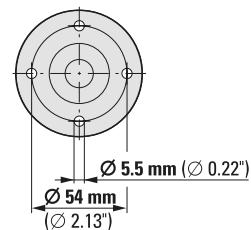


Part no.	a mm (inch)
SL4-PIB-100	136 (3.53)
SL4-PIB-250	286 (11.26)
SL4-PIB-400	436 (17.16)
SL4-PIB-800	836 (32.91)

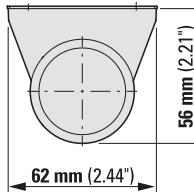
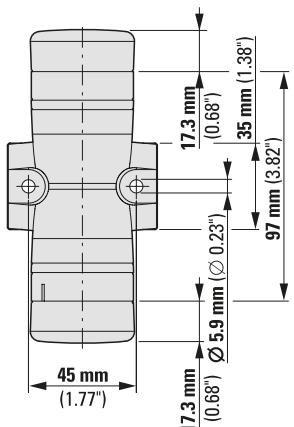
SL4-PIB-T...



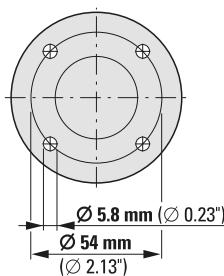
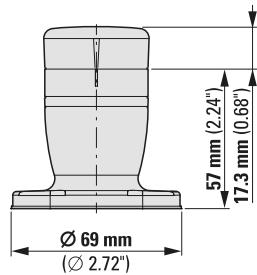
Part no.	a mm (inch)
SL4-PIB-T-100	150 (5.90)
SL4-PIB-T-250	300 (11.81)
SL4-PIB-T-400	450 (17.72)
SL4-PIB-T-800	850 (33.46)



SL4-PIB-D

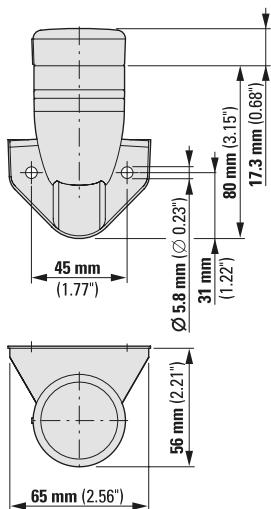


SL4-PIB-EMH

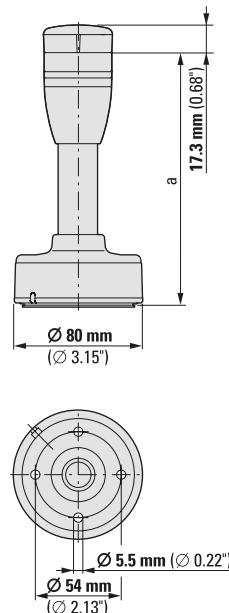


Base modules

SL4-PIB-FW

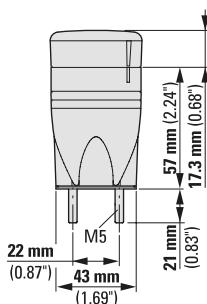


SL4-PIB-IMH

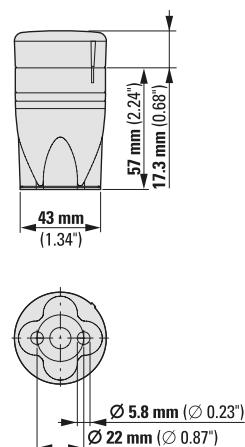


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SL4-PIB-IMS

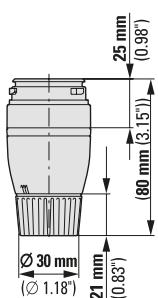


SL4-FMS-...



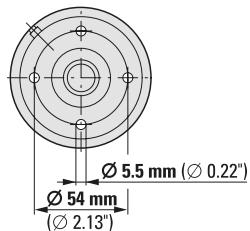
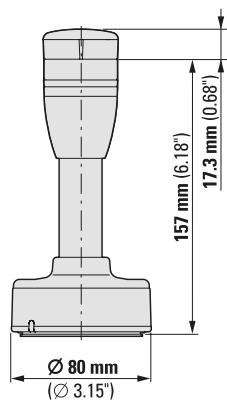
Part no.	a mm (inch)
SL4-FMS-100	157 (6.18)
SL4-FMS-250	307 (12.09)
SL4-FMS-400	457 (17.99)
SL4-FMS-800	857 (33.74)

SL4-PIB-TM

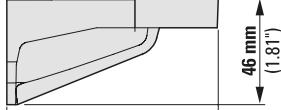
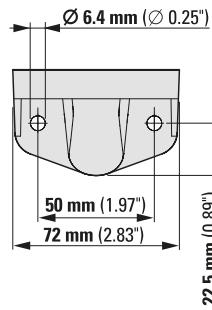


Base module for connecting to SmartWire-DT®

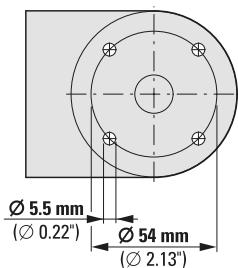
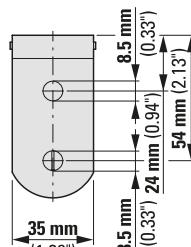
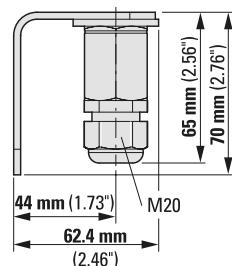
SL4-SWD

**Mounting bracket**

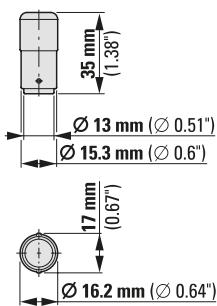
SL7/4-FW



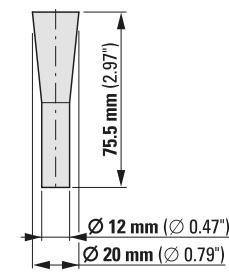
SL7/4-FW-T

**Filament lamp**

SL4-L12(24)(120)(230)

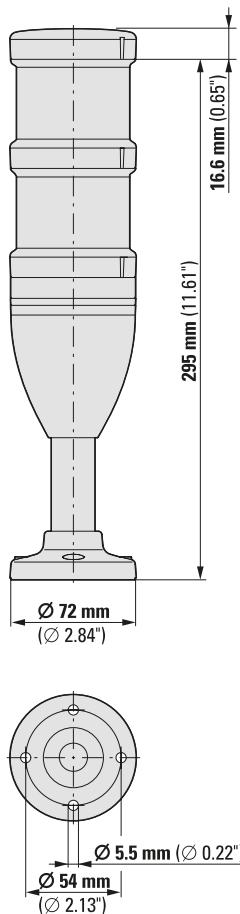
**Tool for replacing filament lamp**

SL7/4-BET

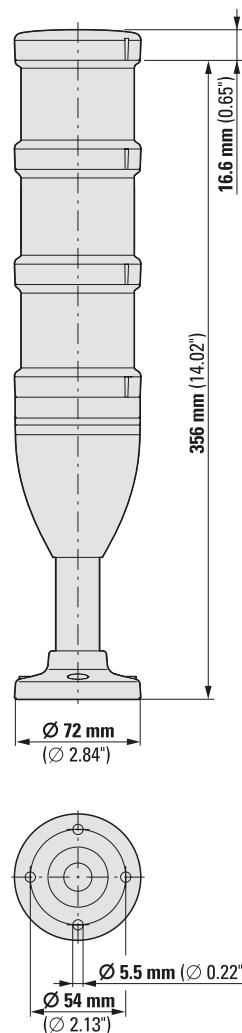


Complete units

SL7-100-L-RG-24LED



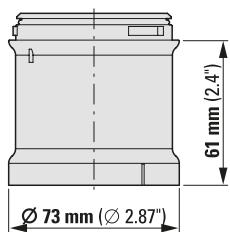
SL7-100-L-RYG-24LED



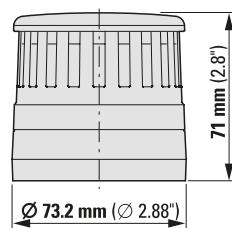
5

Light modules

SL7-(B)(F)L...

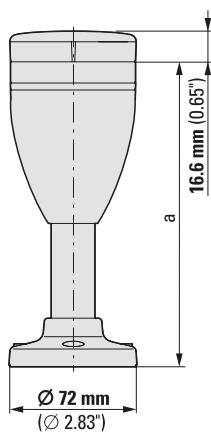
**Acoustic modules**

SL7-AP...



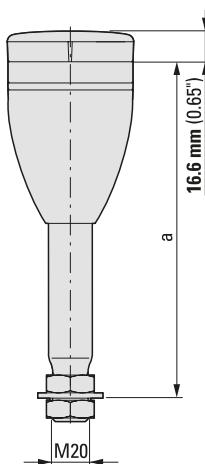
Base modules

SL7-CB-...



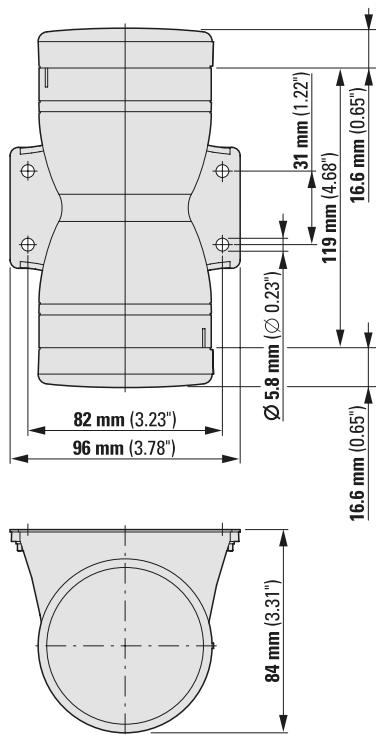
Part no.	a mm (inch)
SL7-CB-100	171 (6.73)
SL7-CB-250	321 (12.64)
SL7-CB-400	471 (18.54)
SL7-CB-800	871 (34.29)

SL7-CB-T-...

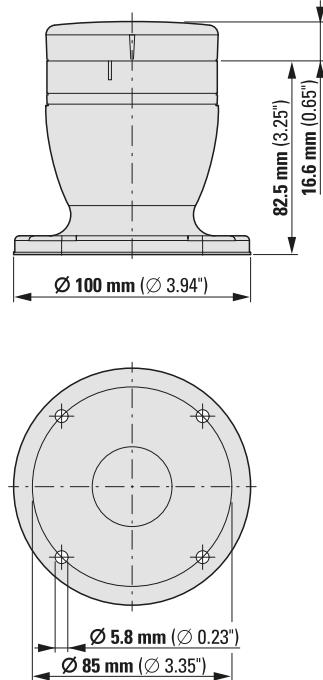


Part no.	a mm (inch)
SL7-CB-T-100	190 (7.48)
SL7-CB-T-250	340 (13.38)
SL7-CB-T-400	490 (19.29)
SL7-CB-T-800	890 (35.04)

SL7-CB-D

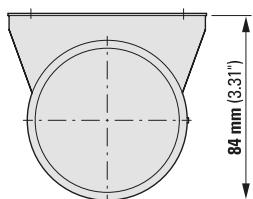
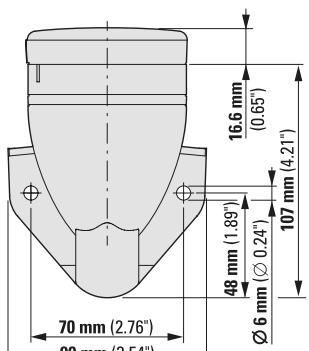


SL7-CB-EMH

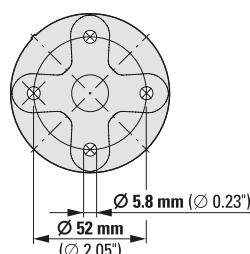
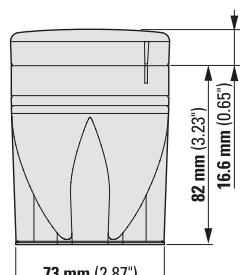


Base modules

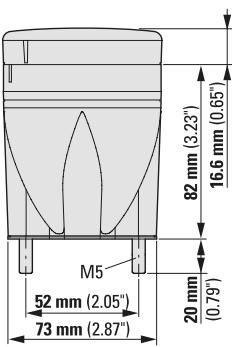
SL7-CB-FW



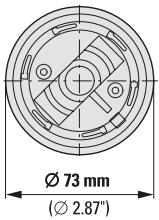
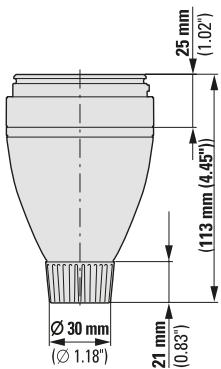
SL7-CB-IMH



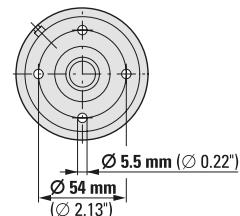
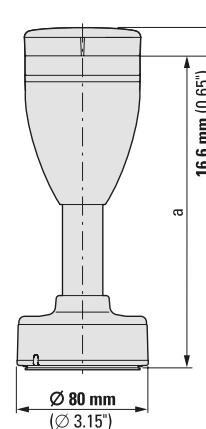
SL7-CB-IMS



SL7-CB-TM



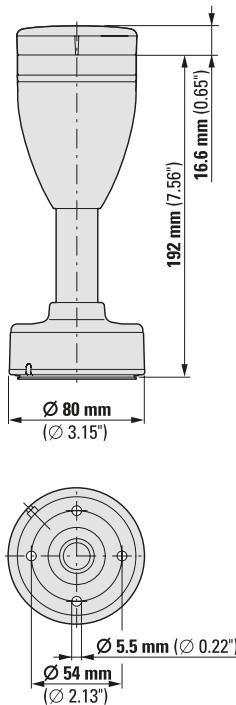
SL7-FMS-...



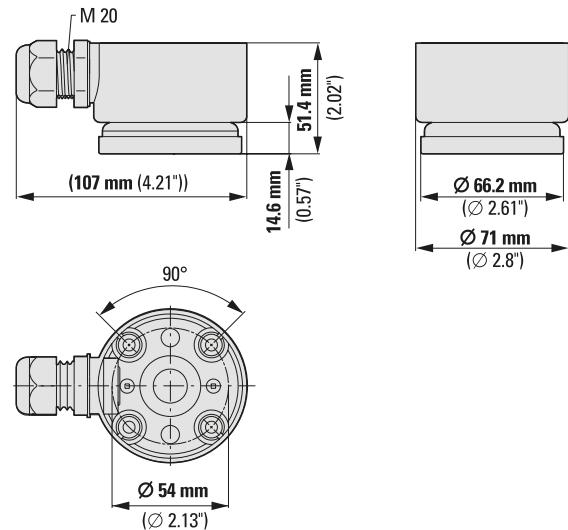
Part no.	a mm (inch)
SL7-FMS-100	192 (7.55)
SL7-FMS-250	342 (13.46)
SL7-FMS-400	492 (19.37)
SL7-FMS-800	892 (35.12)

Base module for connecting to SmartWire-DT®

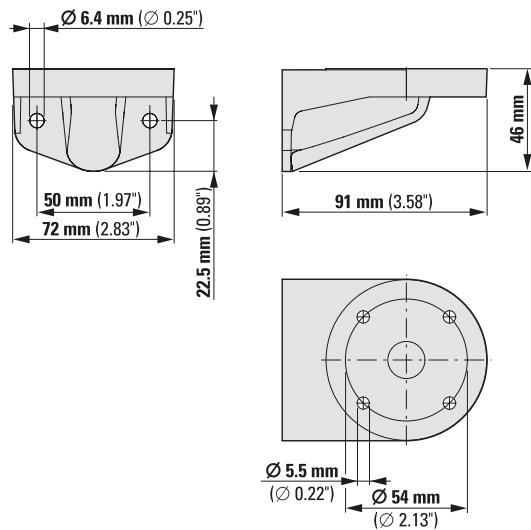
SL7-SWD

**Magnetic base including M20 cable gland**

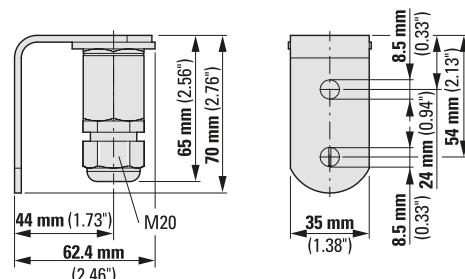
SL7/4-MMS

**Mounting bracket**

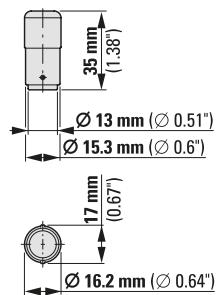
SL7/4-FW



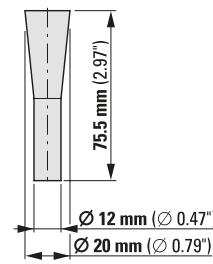
SL7/4-FW-T

**Filament lamp**

SL7-L12(24)(120)(230)

**Tool for replacing filament lamp**

SL7/4-BET



5



The RMQ C22 Series: Powerful Functionality with a Compact Design



Download product range catalog „C22 compact portfolio“
www.eaton.com

RMQ C22 pilot devices are not only characterized by compact dimensions and a conventional screw connection, but also feature the same design that has made units such as our M22 modular pushbuttons stand the test of time. C22 devices are built as monolithic units with an “all-in-one” focus that combines contacts and lamps in a single housing.

In addition to a comprehensive selection of operators and selector switches, the C22 product portfolio also includes emergency stop buttons in a variety of versions, including lockable units.

C22 devices combine multiple components in a single device. This compact design means that only one article no. is required, making product selection and ordering much easier and faster. On top of this, these devices have an extremely long mechanical life and are suitable for worldwide use.



XV HMI/PLC: Easy and Convenient Operation for a Rapidly Changing World



Eaton's XV HMI PLC touch panels comprise a range of products that has been fine-tuned to perfection and can be seamlessly integrated into a variety of performance classes. Capacitive, resistive, and infrared touch technology devices are available in display sizes ranging from 3.5" to 15" with a plastic, metal, or stainless steel housing. Moreover, an on-board SmartWire-DT master interface makes it possible to achieve significant savings all the way from the hardware planning stage through commissioning.

With its multi-touch display HMI PLC units, the XV300 series has opened a whole new world of intuitive and convenient operation. These panels feature the same ease of use as modern mobile devices, such as smartphones and tablets, but upgraded for industrial applications.

Combined with a small mounting depth, the completely flat, anti-reflective, and tempered glass panel in XV300 units ensures that these devices not only meet the most demanding design and hygiene requirements, but are also ideal for use in harsh industrial environments.

Build it in.



Control and Signaling in Hazardous Locations



For more information please refer to the Crouse-Hinds main catalog (Part 2)

Download at:
www.crouse-hinds.de/en
Products and Brochures



CEAG products from Eaton's Crouse-Hinds series include signal and control devices for a reliable operation in harsh environments.

Enclosures in high degree of protection (IP66) are available in impact-resistant plastic, glass fiber-reinforced polyester, light alloy or stainless steel with a high resistance to chemicals.

The portfolio includes explosion-protected built-in components designed for panel mounting and use in zones 1 and 2. In addition to control units, it also includes signal lamps, pushbuttons, and switches. Moreover, the switch and pushbutton top parts can be combined with various contact systems.

Control units are available in enclosure solutions that make them suitable for use in zone 1, 2, 21, and 22. Up to three built-in components can be installed in each enclosure. Even the light alloy and stainless steel enclosures are particularly characterized by high mechanical and thermal resistances.

Explosion-protected built-in components

The use of CEAG signal and control devices for panel mounting applications is approved for panel thicknesses of up to 5 mm. The panel built-in devices, signal lamps, pushbutton, and switch bases can be installed in a matter of seconds by using the bayonet mount on the devices. Single-wire installation is easy and clear. Slip-on strain-relief fittings and protective caps for the cable connections can be retrofitted on all panel mounting devices, at which point the devices become fully certified units.

This approach eliminates the need to configure and keep spares of panel built-in devices with different cable lengths.

Built-in components for control units

The variety of built-in components available means that custom-tailored control units for specific customers can be put together within the scope of type examination. The switch and button top parts can be combined with a variety of contact systems as necessary.

Explosion-protected control units

Enclosure solutions made of low-temperature impact-resistant thermoplastic, high-quality die-cast aluminum (AISI), or stainless steel (AISI 316) are available. The well-engineered design behind the plastic housing makes it possible to achieve an optimum cable connection thanks to the fact that the side panels are drawn deeper.

In order to make cable routing easier, the built-in components can be snapped out from the housing.

Mounting openings can be left unused so that certified genuine CEAG components can be retrofitted as necessary. In this case, the openings will be sealed at the factory with blanking elements.

Assortment

The explosion-protected pilot devices are available as pushbuttons, double pushbuttons, mushroom-head pushbuttons, emergency stop mushroom-head pushbuttons, key-operated pushbuttons and LED signal lamps with a number of designs. In addition, a variety of accessories, including label plates and protective caps, are available as well.

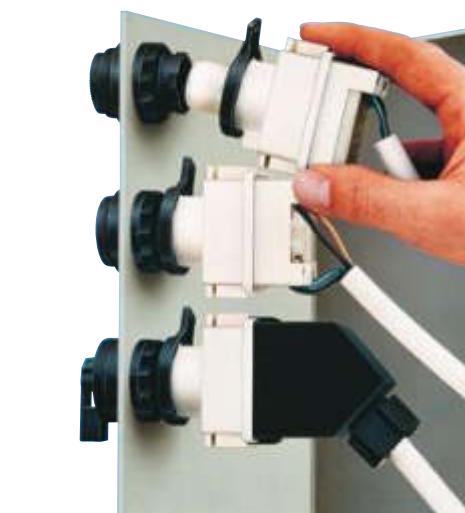
In the case of explosion-protected control units, the built-in components are installed inside an enclosure, making them suitable for use in zone 1 and 2 explosive gas areas and zone 21 and 22 explosive dust areas. The corresponding enclosures made of plastic, light alloy, or stainless steel feature a high degree of protection (IP66).

Explosion-protected built-in components

for zone 1 and 2



Eaton Crouse-Hinds products are suitable for use in harsh and demanding environmental conditions.



Quick and easy installation of built-in components in control panels.

Explosion-protected enclosure solutions

for zones 1, 2, 21 and 22



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- Customer-specific packaging

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- Products in enclosures / on DIN-rail / mounting plate
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