



Photoelectric sensors XU, XUB, multi, Sn 0...20 m, 12...24 VDC, cable 2 m

XUB0BPSNL2

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Main	
Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Multimode
Material	Metal
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	2 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	3 m polarised reflex need reflector XUZC50 20 m thru beam need a transmitter XUB0BKSNL2T 0.12 m diffuse with background suppression 0.3 m diffuse

Complementary

Enclosure material	Nickel plated brass
Lens material	РММА
Maximum sensing distance	0.12 m diffuse with background suppression 0.4 m diffuse 30 m thru beam 4.5 m polarised reflex
Output type	Solid state
Add on output	Without

Wire insulation material	PvR
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Supply voltage limits	1036 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 250 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	35 mA no-load
Maximum delay first up	200 ms
Maximum delay response	2 ms
Maximum delay recovery	2 ms
Setting-up	Self-teaching
Diameter	18 mm
Length	64 mm
Net weight	0.105 kg
Environment	
Product certifications	CE CSA UL
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 Hz) conforming to IEC 60068-2-6

Packing Units

Shock resistance

IP degree of protection

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	126 g
Package 1 Height	4.2 cm
Package 1 width	9.7 cm
Package 1 Length	13.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	3.136 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

30 gn (duration = 11 ms) conforming to IEC 60068-2-27

IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529

Offer Sustainability

Sustainable offer status	Green Premium product

REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

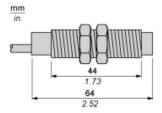
Warranty	18 months
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Product data sheet

XUB0BPSNL2

Dimensions Drawings

Dimensions



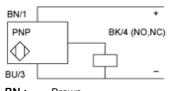
Product data sheet

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Connections and Schema

Connections and Schemes

PNP



BN: Brown
BU: Blue
BK: Black

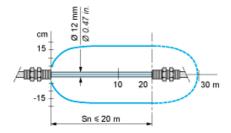
Product data sheet

XUB0BPSNL2

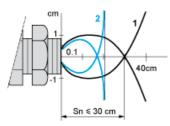
Performance Curves

Detection Curves

With Thru-beam Accessory (Thru-beam)



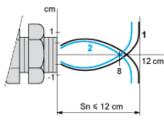
Without Accessory (Diffuse)



1: White 90% **2**: Grey 18%

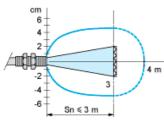
Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



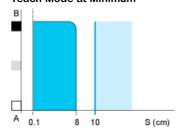
1: White 90% 2: Grey 18% Object 10 x 10 cm

With reflector (Polarised reflex)

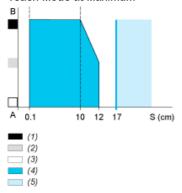


With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression) Teach Mode at Minimum



Teach Mode at Maximum



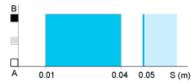
A-B : Object reflection coefficient

(1) (2) (3) (4) (5) Black 6% Grey 18% White 90% Sensing range

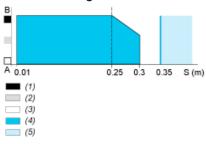
Non sensing zone (matt surfaces)

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B : Object reflection coefficient

(1) (2) (3) (4) (5) Black 6% Grey 18% White 90% Sensing range

Non sensing zone (matt surfaces)