

Product data sheet Characteristics

XUB0BNSNL2

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - cable 2m



Important message: We have updated the process for ordering Telemecanique Sensors products. For more information, please contact your Telemecanique Sensors representative in the UK&I at: UK.salesorders@tesensors.comYou can find all product information on the Telemecanique Sensors website:

www.tesensors.com/uk/en Local distributor code: 388762905 EAN Code: 3389110148411



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	NPN	
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	PMMA	
Maximum sensing distance	0.12 M diffuse with background suppression0.4 M diffuse30 M thru beam4.5 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)	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining validability or likes products for specific user applications.
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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 UL[RETURN]CE[RETURN]CSA		
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	
ock resistance 30 gn (duration = 11 ms) conforming to IEC 60068-2-27		
IP degree of protection	IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529	

Packing Units

3 - 3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.2 cm
Package 1 Width	9.4 cm
Package 1 Length	4.0 cm
Package 1 Weight	128.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.293 kg

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)	
Mercury free	Yes	
RoHS exemption information	₫Yes	

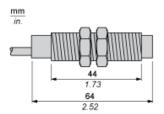
Contractual warranty

Warranty	18 mont	

Product data sheet Dimensions Drawings

XUB0BNSNL2

Dimensions

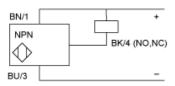


Product data sheet Connections and Schema

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Connections and Schemes

NPN

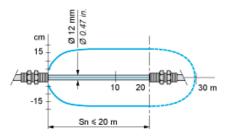


BN: Brown BU: Blue BK: Black

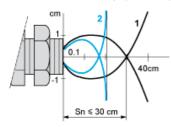
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Detection Curves

With Thru-beam Accessory (Thru-beam)

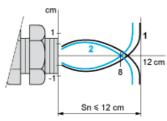


Without Accessory (Diffuse)



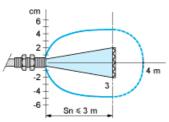
1: White 90% 2: Grey 18% Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



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

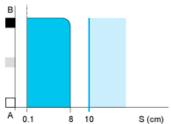
With reflector (Polarised reflex)



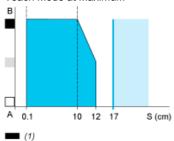
With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression)

Teach Mode at Minimum



Teach Mode at Maximum



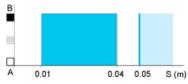
(2) (3) (4) (5)

A-B: Object reflection coefficient

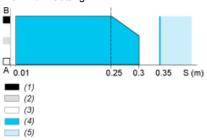
- Black 6% (1)
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B: Object reflection coefficient

- (1) Black 6%

- (2) Grey 18% (3) White 90% (4) Sensing range
- Non sensing zone (matt surfaces)