XUB0SPSNM12

Photoelectric sensors XU, XUB, multi, Sn 0...20 m, 12...24 VDC, M12



Main

Maili		
Range of product	Telemecanique Photoelectric sensors XU	
Series name	Application food and beverage mutlimode	
Electronic sensor type	Photo-electric sensor	
Sensor name	XUB	
Sensor design	Cylindrical M18	
Detection system	Multimode	
Material	Stainless steel	
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	1 male connector M12, 4 pins	
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 XUB0SKSNM12T 0.12 M diffuse with background suppression	

0.3 m diffuse

Complementary

Complementary	
Enclosure material	Stainless steel : 304 CU
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
Status LED	1 LED (green) for output state 1 LED (red) for supply on 1 LED (yellow) for stability
[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-training
Diameter	18 mm
Length	78 mm
Net weight	0.055 kg

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 interest of and is not to be used for determining suitability or flushed products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product certifications	CSA[RETURN]UL[RETURN]CE
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
Shock 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
	IP69K double insulation conforming to DIN 40050

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.4 cm	
Package 1 Width	6.6 cm	
Package 1 Length	9.2 cm	
Package 1 Weight	73.0 g	
Unit Type of Package 2	S01	
Number of Units in Package 2	22	
Package 2 Height	15.0 cm	
Package 2 Width	15.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	1.79 kg	

Offer Sustainability

Sustainable offer status	Green Premium product
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

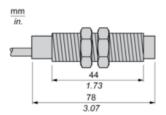
Warranty	18 months



Product data sheet Dimensions Drawings

XUB0SPSNM12

Dimensions

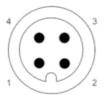


Product data sheet Connections and Schema

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Wiring Schemes

M12 Connector

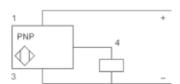


3 : (-)

1:(+)

4 : OUT/Output 2 : Not connected

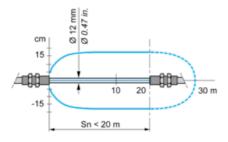
PNP



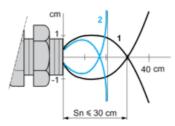
XUB0SPSNM12

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

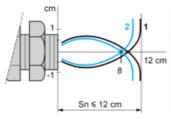


1: White 90%

2 : Grey 18%

Object: 10 x 10 cm

Without Accessory (Diffuse with Background. Suppression

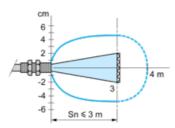


1: White 90%

2 : Grey 18%

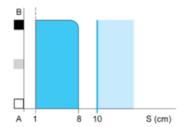
Object: 10 x 10 cm

With Reflector XUZC50 (Polarised Reflex)

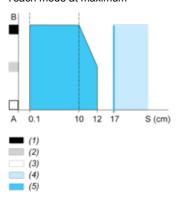


Variation of Usable Sensing Distance Su (Without Accessory, with Adjustable Background Suppression)

Teach mode at minimum



Teach mode at maximum



A-B : Object reflection coefficient

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