

Product data sheet Characteristics

XUB0APSWL5

photo-electric sensor - XUB - multi - 90° - Sn 0..7m - 12..24VDC - cable 5m

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

EAN Code: 3389110288797



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	Plastic
Line of sight type	90° lateral
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	5 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	1.5 M polarised reflex need reflector XUZC50 7 M thru beam need a transmitter XUB0AKSWL5T 0.11 M diffuse with background suppression 0.2 m diffuse

Complementary

Complementary		
Enclosure material	PBT	
Lens material	PMMA	
Maximum sensing distance	2 M polarised reflex	
	0.11 M diffuse with background suppression	
	0.3 M diffuse	
	10 m thru beam	
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	78 mm

Environment

Product certifications	CE[RETURN]CSA[RETURN]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
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

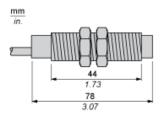
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

XUB0APSWL5

Dimensions

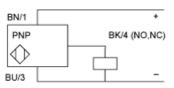


Product data sheet Connections and Schema

XUB0APSWL5

Connections and Schemes

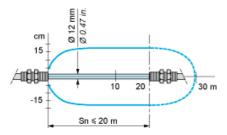
PNP



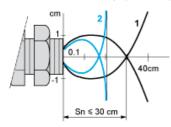
BN: Brown BU: Blue BK: Black

Detection Curves

With Thru-beam Accessory (Thru-beam)

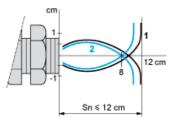


Without Accessory (Diffuse)



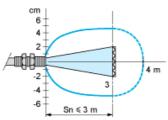
1: White 90% 2: Grey 18% Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



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

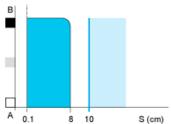
With reflector (Polarised reflex)



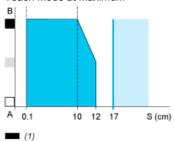
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



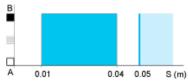
(2) (3) (4) (5)

A-B: Object reflection coefficient

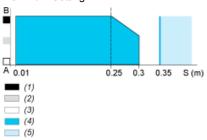
- Black 6% (1)
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

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)