Product data sheet Characteristics

XUB0BPSNM12

Product availability: Stock - Normally stocked in distribution facility



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Range of product	OsiSense XU	
Series name	General purpose multimode	
Electronic sensor type	Photo-electric sensor	
Sensor name	XUB	
Sensor design	Cylindrical M18	
Detection system	Multimode	
Sensing range	> 065.62 ft (> 020 m)	
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	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	0.39 ft (0.12 m) diffuse with background suppression 0.98 ft (0.3 m) diffuse 9.84 ft (3 m) polarised reflex need reflector XUZC50 65.62 ft (20 m) thru beam need a transmitter XUB0BKSNM12T	

Complementary

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Enclosure material	Nickel plated brass	
Lens material	PMMA	
Maximum sensing distance	0.39 ft (0.12 m) diffuse with background suppression 1.31 ft (0.4 m) diffuse 98.43 ft (30 m) thru beam 14.76 ft (4.5 m) polarised reflex	
Output type	Solid state	
Add on output	Without	

Status LED	1 LED (green) supply 1 LED (red) instability 1 LED (yellow) 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
Voltage drop	1.5 V (closed state)
Current consumption	35 mA (no-load)
Delay first up	< 200 ms
Delay response	< 2 ms
Delay recovery	< 2 ms
Setting-up	Self-teaching
Diameter	0.71 in (18 mm)
Length	3.07 in (78 mm)
Product weight	0.12 lb(US) (0.055 kg)

Environment

Product certifications	CE CSA UL
Ambient air temperature for operation	-13131 °F (-2555 °C)
Ambient air temperature for storage	-40158 °F (-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

Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901821656
Nbr. of units in pkg.	1
Package weight(Lbs)	0.14999999999999
Returnability	Y
Country of origin	ID

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0814 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold

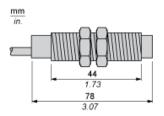
Contractual warranty

outline that want and		
Warranty period	18 months	

Product data sheet Dimensions Drawings

XUB0BPSNM12

Dimensions

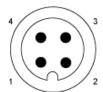


Product data sheet Connections and Schema

XUB0BPSNM12

Wiring Schemes

M12 Connector



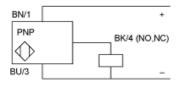
Beam break input (1) 2:

3:

OUT/Output 4:

Beam break input on thru-beam transmitter only

Receiver, PNP Output



BN: Brown BU: Blue BK: Black

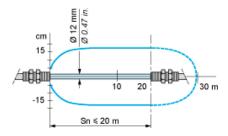
Product data sheet

XUB0BPSNM12

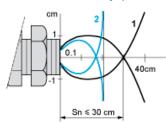
Performance Curves

Detection Curves

With Thru-beam Accessory (Thru-beam)



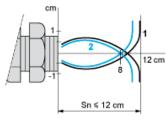
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

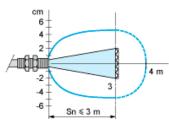
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

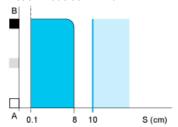
With reflector (Polarised reflex)



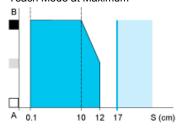
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum





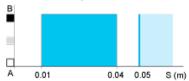
A-B: Object reflection coefficient

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

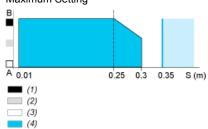
(5) Non sensing zone (matt surfaces)

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

(4) Sensing range(5) Non sensing zone (matt surfaces)