Product data sheet Characteristics

XUB0BPSNL2

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

Product availability: Stock - Normally stocked in distribution facility



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	
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	6.56 ft (2 m)	
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 XUB0BKSNL2T	

Complementary

		<u>o</u> .
Enclosure material	Nickel plated brass	ation_
Lens material	PMMA	nent
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	imer: This docu

Output type	Solid state
Add on output	Without
Wire insulation material	PvR
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	2.52 in (64 mm)
Product weight	0.23 lb(US) (0.105 kg)

Environment

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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

Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901678779
Nbr. of units in pkg.	1
Package weight(Lbs)	0.2800000000000003
Returnability	Υ
Country of origin	ID

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0814 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
More information	For more information go to www.p65warnings.ca.gov
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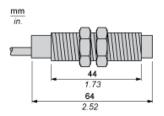
Contractual warranty

Warranty period	18 months

Product data sheet Dimensions Drawings

XUB0BPSNL2

Dimensions

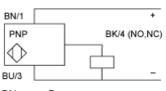


Product data sheet Connections and Schema

XUB0BPSNL2

Connections and Schemes

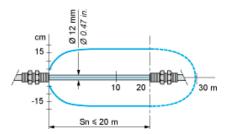
PNP



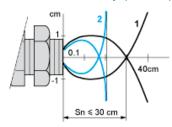
BN: Brown
BU: Blue
BK: Black

Detection Curves

With Thru-beam Accessory (Thru-beam)



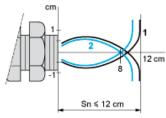
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

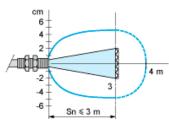
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

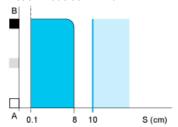
With reflector (Polarised reflex)



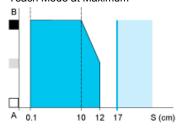
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum





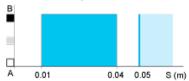
A-B: Object reflection coefficient

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

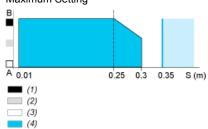
(5) Non sensing zone (matt surfaces)

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)