XUB0BPSWL08M12

photo-electric sensor - XUB - multi - 90° - Sn 0..7m - 12..24VDC - M12 0.8m



Main

Main	
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	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	1 remote male connector M12, 4 pins
Cable length	0.8 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing	1.5 M polarised reflex need reflector XUZC50

7 M thru beam need a transmitter

0.2 m diffuse

0.11 M diffuse with background suppression

Complementary

Complementary		
Enclosure material	Nickel plated brass	
Lens material	РММА	
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	
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	

distance

Environment

Product certifications	CE UL 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
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

Package 1 Weight	0.131 kg	
Package 1 Height	0.420 dm	
Package 1 width	0.960 dm	
Package 1 Length	1.320 dm	

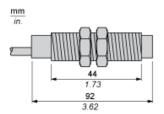
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

XUB0BPSWL08M12

Dimensions

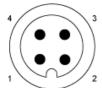


Product data sheet Connections and Schema

XUB0BPSWL08M12

Wiring Schemes

M12 Connector



1:

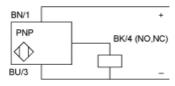
2: Beam break input (1)

3:

(-) OUT/Output

Beam break input on thru-beam transmitter only

Receiver, PNP Output

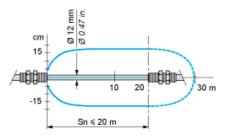


BN: Brown BU: Blue BK: Black

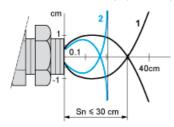
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Detection Curves

With Thru-beam Accessory (Thru-beam)

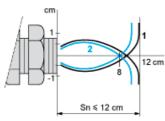


Without Accessory (Diffuse)



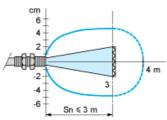
1: White 90% 2: Grey 18% Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



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

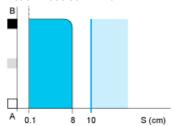
With reflector (Polarised reflex)



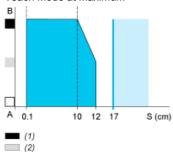
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



A-B: Object reflection coefficient

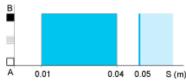
Black 6% (1)

(3) (4) (5)

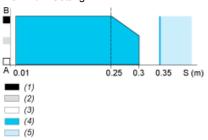
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B: Object reflection coefficient

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