XUB0ANSNM12



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	Plastic
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
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 XUB0AKSNM12T

Complementary

Enclosure material	PBT	
Lens material	РММА	
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	0.1 lb(US) (0.045 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

Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 0821 - Schneider Electric declaration of conformity	Compliant - since 0821 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State Diisononyl phthalate (DINP), which is known to the State of California to cause of California to cause cancer, and cancer, and	
Di-isodecyl phthalate (DIDP), which is known to the Stat of California to cause birth defects or other reproductive	eDi-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

harm.

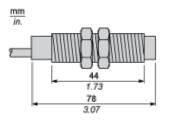
For more information go to www.p65warnings.ca.gov For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period

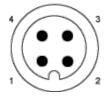
18 months

Dimensions



Wiring Schemes

M12 Connector

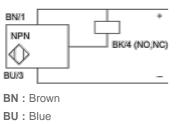


1: (+)

- 2: Beam break input (1)
- 3: (-)
- 4: OUT/Output
- (1) Beam break input on thru-beam transmitter only

Receiver, NPN Output

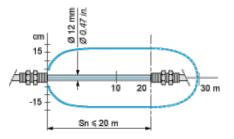




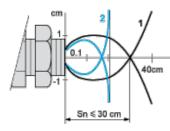
BK : Black

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

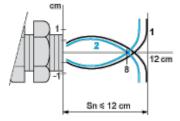


1: White 90%

2: Grey 18%

Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)

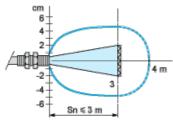


1: White 90%

2: Grey 18%

Object 10 x 10 cm

With reflector (Polarised reflex)

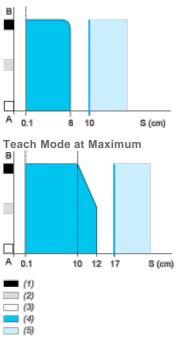


With reflector XUZC50

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

Teach Mode at Minimum

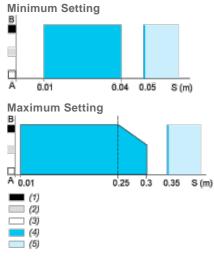




A-B :Object reflection coefficient

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

Variation of Usable Sensing Distance



- A-B :Object reflection coefficient
- (1) Black 6%
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- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

