## XUB0ANSNM12

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - M12





#### 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	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	9.84 Ft (3 m) polarised reflex need reflector XUZC50 65.62 Ft (20 m) thru beam need a transmitter XUB0AKSNM12T 0.39 Ft (0.12 m) diffuse with background

suppression 0.98 ft (0.3 m) diffuse

#### 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 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	0.71 in (18 mm)

Length	3.07 in (78 mm)
Net Weight	0.10 lb(US) (0.045 kg)
Environment	
Product certifications	CSA CE
	UL
Ambient air temperature for operation	-13131 °F (-2555 °C)
Ambient air temperature for storage	-40158 °F (-4070 °C)
Vibration resistance	7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP65 double insulation IEC 60529 IP67 double insulation IEC 60529 IP69K double insulation DIN 40050
Ordering and shipping details	
Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901510079
Nbr. of units in pkg.	1
Package weight(Lbs)	0.1 lb(US) (0.05 kg)
Returnability	Yes
Country of origin	ID
Packing Units Unit Type of Package 1	PCE
Package 1 Height	1.65 in (4.2 cm)
Package 1 width	2.60 in (6.6 cm)
Package 1 Length	3.74 in (9.5 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Weight	2.76 lb(US) (1.254 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)
Offer Sustainability	
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information

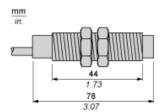
#### Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

# XUB0ANSNM12

#### **Dimensions**

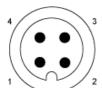


## Product data sheet Connections and Schema

## XUB0ANSNM12

#### Wiring Schemes

#### M12 Connector



1:

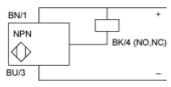
2: Beam break input (1)

3:

(-) OUT/Output

Beam break input on thru-beam transmitter only

#### Receiver, NPN Output

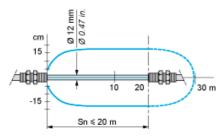


BN: Brown BU: Blue BK: Black

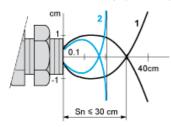
### XUB0ANSNM12

#### **Detection Curves**

#### With Thru-beam Accessory (Thru-beam)

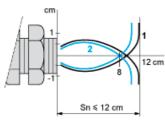


#### Without Accessory (Diffuse)



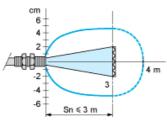
1: White 90% 2: Grey 18% Object 10 x 10 cm

#### Without Accessory (Diffuse with background suppression)



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

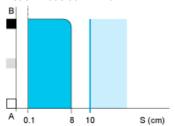
#### With reflector (Polarised reflex)



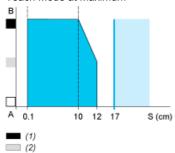
With reflector XUZC50

#### 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

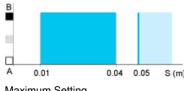
Black 6% (1)

(3) (4) (5)

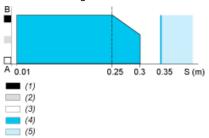
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

#### Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B: Object reflection coefficient

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