Product data sheet
Characteristics

XUBLAPCNM12
photo-electric sensor - XUB - thru beam - laser - Sn 100m - 12..24VDC - M12

Product availability : Stock - Normally stocked in distribution facility

Price* : 398.00 USD



Main

Range of product	OsiSense XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Thru beam
Material	Plastic
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
Emission	Red laser (class 1), wavelength: 2.6378E-05 in (670 nm) conforming to IEC 825-1
[Sn] nominal sensing distance	328.08 ft (100 m)

Complementary

Enclosure material	PBT
Lens material	PMMA
Blind zone	0 in (0 mm)
Output type	Solid state
Status LED	1 LED (green) supply on and teaching 1 LED (red) stability 1 LED (yellow) output state and alignment aid
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	1500 Hz
Voltage drop	<= 1.5 V (closed state)
Current consumption	25 mA (no-load)
Power consumption in W	< 1 W
Delay first up	< 80 ms
Delay response	< 0.4 ms
Delay recovery	< 0.4 ms
Setting-up	With sensitivity adjustment
Product weight	0.17 lb(US) (0.078 kg)
Kit composition	Transmitter + receiver XUBLAKCNM12T + XUBLAPCNM12R

Environment

Product certifications	CE CSA UL
Ambient air temperature for operation	14...113 °F (-10...45 °C)
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn, amplitude = +/- 0.75 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP67 (double insulation) conforming to IEC 60529

Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901636939
Nbr. of units in pkg.	1
Package weight(Lbs)	0.14000000000000001
Returnability	Y
Country of origin	FR

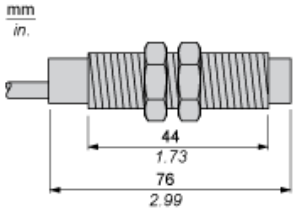
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0901 - 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

Contractual warranty

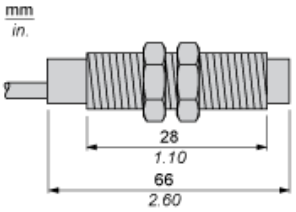
Warranty period	18 months

Dimensions



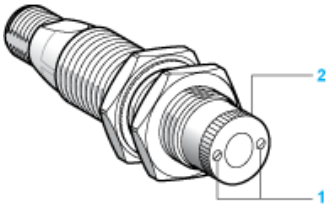
XUBLAPCNM12

Dimensions



Mounting

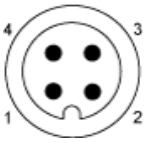
Adjustment



(1) Adjust the focusing point of the laser beam by rotating the serrated sleeve
(2) Located on the face of the sensor. Re-tighten fixing screws

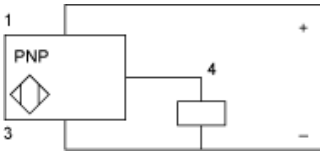
Wiring Schemes

M12 Connector

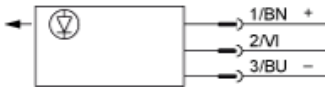


1 : (+)
2 : Beam break input
3 : (-)
4 : OUT/Output

PNP



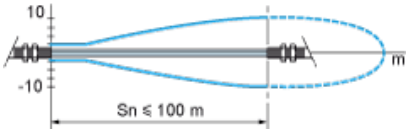
Transmitter



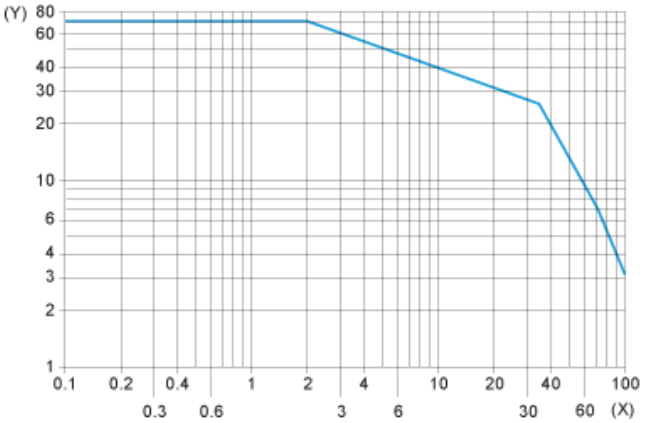
BN : Brown
BU : Blue
Input 2/VI connected: beam made, connected to (-): beam broken

Curves

Detection Curve (Set to Infinity)

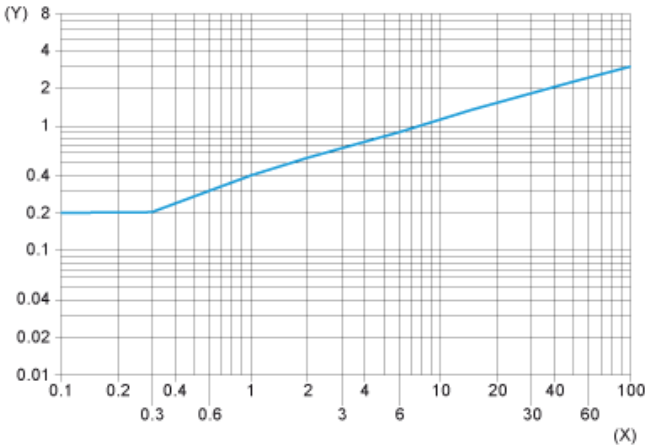


Excess Gain Curve



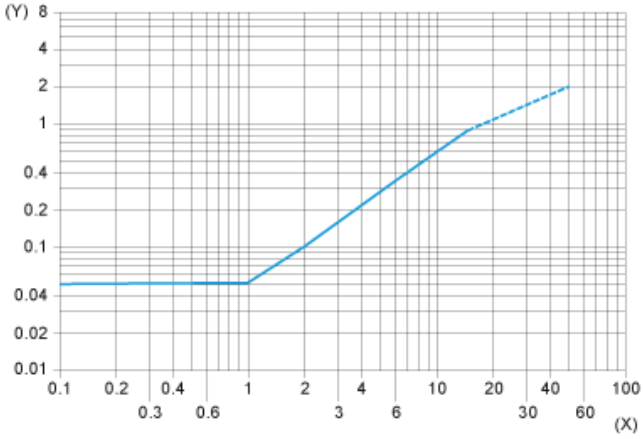
(X) Distance (m)
(Y) Gain

Standard Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)

Detection Limit Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)