

Product data sheet

XUBLAPCNM12

Photoelectric sensor XUB, plastic, thru-beam, laser, Sn 100 m, 12...24 VDC, M12, PNP, NO/NC

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Sensor name	XUB
Electronic sensor type	Photo-electric sensor
Sensor design	Cylindrical M18
Kit composition	Transmitter + receiver XUBLAKCNM12T + XUBLAPCNM12R
ETIM classification	ETIM 9 - EC002716 - Through beam photoelectric sensor
Material	Plastic
Lens material	PMMA
Enclosure material	PBT
[Sn] nominal sensing distance	100-100 m
Wiring technique	3-wire
Detection system	Thru beam
Delay response	0.4 ms
Indivisible sale quantity	1

Complementary

Sensing range	> 30 m
Electrical connection	1 male connector M12
Supply voltage limits	10-30 V DC
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply circuit type	DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Voltage drop	<1.5 V (closed state)
Current consumption	25 mA no-load
Emission	Red laser class 1 670 nm conforming to IEC 825-1
Setting-up	With sensitivity adjustment
Status LED	-
Output type	Solid state

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Type of output signal	Discrete
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Blind zone	0 mm
Delay first up	80 ms
Delay recovery	0.4 ms
Product weight	0.078 kg

Environment

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

Offer Sustainability

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

Warranty

Warranty	18 months

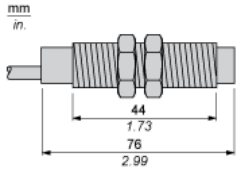
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916032800
Package 1 height	3.4 cm
Package 1 width	7 cm
Package 1 length	12.8 cm
Package 1 weight	0.078 kg
Unit type of package 2	S02
Number of units in package 2	35
New Package 2 GTIN 14	13666916032807
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	2.509 kg
Unit type of package 3	CAR
Number of units in package 3	1

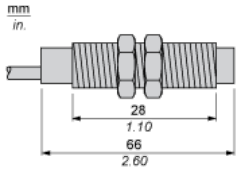
New Package 3 GTIN 14	23666916032804
Package 3 height	13 cm
Package 3 width	3.6 cm
Package 3 length	7 cm
Package 3 weight	0.063 kg

Technical Drawings

Dimensions

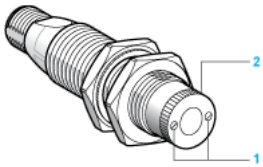


Dimensions



Mounting

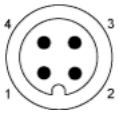
Adjustment



- (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

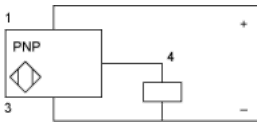
M12 Connector



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

Wiring Schemes

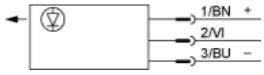
PNP



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

Wiring Schemes

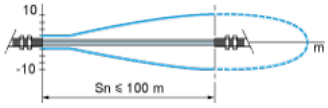
Transmitter



- 1 : (+)
- 2 : Beam break input
- 3 : (-)
- 4 : OUT/Output
- BN : Brown
- BU : Blue
- Input 2/VI : Not connected: beam made, connected to (-): beam broken

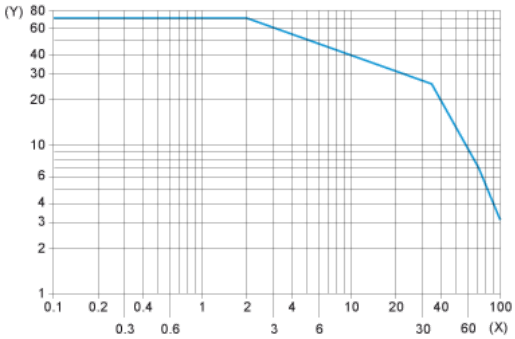
Curves

Detection Curve (Set to Infinity)



Curves

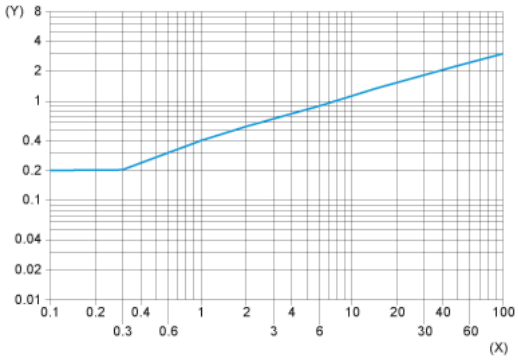
Excess Gain Curve



- (X) Distance (m)
- (Y) Gain

Curves

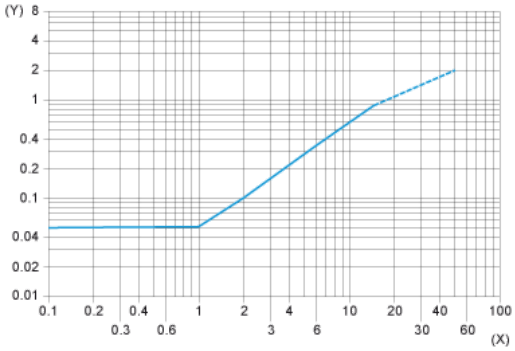
Standard Curve



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

Curves

Detection Limit Curve



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