

XUBLAPCNM12

Photoelectric sensors XU, XUB, thru beam, laser, Sn 100 m, 12...24 VDC, M12



Main

| | |
|-------------------------------|---|
| Range of Product | Telemecanique Photoelectric sensors 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 0.000026378 in (670 nm) IEC 825-1 |
| [Sn] nominal sensing distance | 328.08 ft (100 m) |

Complementary

| | |
|--------------------------------|---|
| Enclosure Material | PBT |
| Lens material | PMMA |
| Blind zone | 0.00 in (0 mm) |
| Output Type | Solid state |
| Status LED | Supply on and teaching 1 LED green) Stability 1 LED red) Output state and alignment aid 1 LED yellow) |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Supply voltage limits | 10...30 V DC |
| Switching capacity in mA | <= 100 mA overload and short-circuit protection) |
| Switching frequency | 1500 Hz |
| Maximum voltage drop | <1.5 V closed state) |
| Current consumption | 25 mA no-load |
| Maximum power consumption in W | 1 W |
| Maximum delay first up | 80 ms |
| Maximum delay response | 0.4 ms |
| Maximum delay recovery | 0.4 ms |
| Setting-up | With sensitivity adjustment |
| Net Weight | 0.17 lb(US) (0.078 kg) |
| Kit composition | Transmitter + receiver XUBLAKCNM12T + XUBLAPCNM12R |

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. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 +/- 0.75 mm 10...55 Hz) IEC 60068-2-6 |
| Shock resistance | 30 gn 11 ms) IEC 60068-2-27 |
| IP degree of protection | IP67 IEC 60529 double insulation) |

Ordering and shipping details

| | |
|-----------------------|------------------------------|
| Category | 22481-SENSORS, PHOTOELECTRIC |
| Discount Schedule | DS2 |
| GTIN | 3389119021005 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.22 oz (63.0 g) |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.34 in (3.4 cm) |
| Package 1 width | 2.76 in (7 cm) |
| Package 1 Length | 5.04 in (12.8 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 35 |
| Package 2 Weight | 5.53 lb(US) (2.509 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

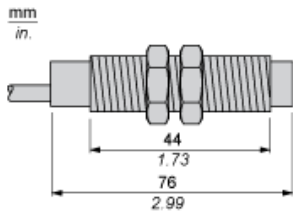
Offer Sustainability

| | |
|----------------------------|---|
| 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) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

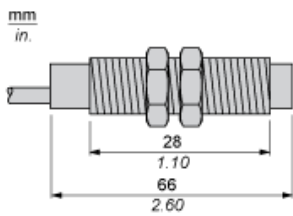
Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

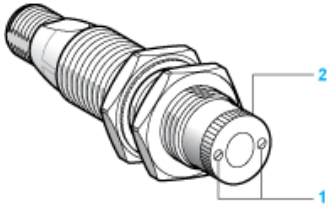


Dimensions



Mounting

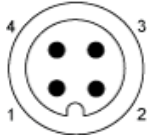
Adjustment



- (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

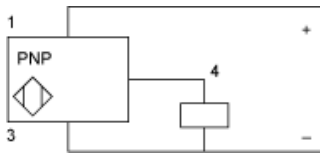
Wiring Schemes

M12 Connector

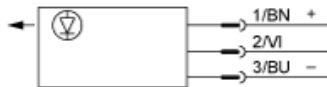


- 1 : (+)
- 2 : Beam break input
- 3 : (-)
- 4 : OUT/Output

PNP



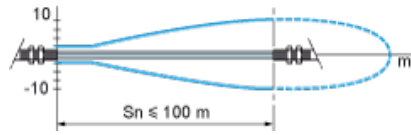
Transmitter



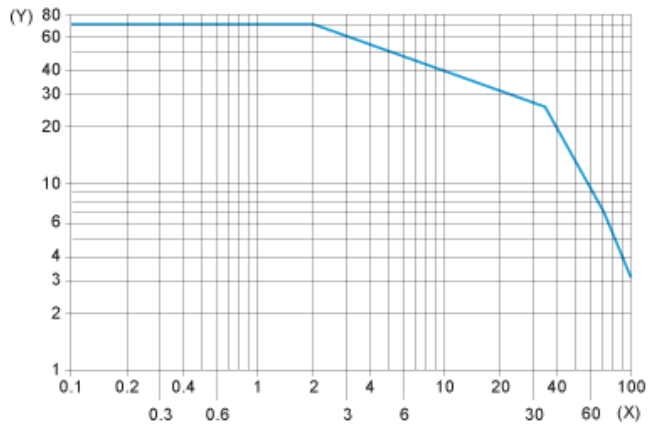
- BN : Brown
- BU : Blue
- Input Not connected: beam made, connected to (-): beam broken
- 2/VI :

Curves

Detection Curve (Set to Infinity)

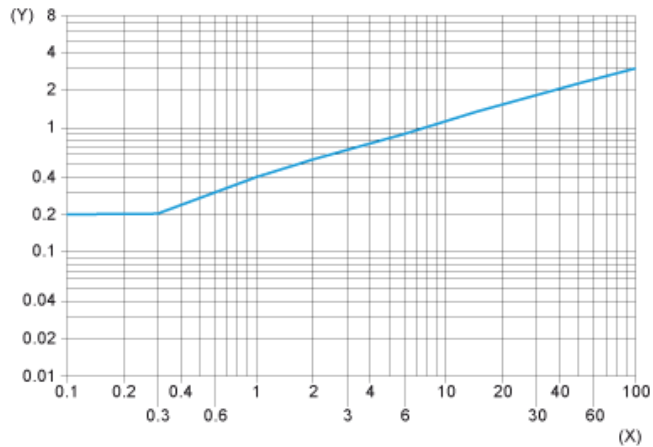


Excess Gain Curve



(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)

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