

Product data sheet

Specifications



Photoelectric sensors XU, XUB, diffuse, Sn 0.6 m, 12...24 VDC, M12

XUB5ANANM12

 To be discontinued on: Apr 4, 2025

 To be discontinued

Main

| | |
|-------------------------------|--|
| Range Of Product | Telemecanique Photoelectric sensors XU |
| Series Name | General purpose single mode |
| Electronic Sensor Type | Photo-electric sensor |
| Sensor Name | XUB |
| Sensor Design | Cylindrical M18 |
| Detection System | Diffuse |
| 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 |
| Electrical Connection | 1 male connector M12, 4 pins |
| Product Specific Application | - |
| Emission | Infrared diffuse |
| [Sn] Nominal Sensing Distance | 0.6 m diffuse |

Complementary

| | |
|---------------------------|---|
| Enclosure Material | PBT |
| Lens Material | PMMA |
| Maximum Sensing Distance | 0.8 m diffuse |
| Output Type | Solid state |
| Add On Output | Without |
| Wire Insulation Material | PvR |
| Status Led | 1 LED (yellow) for output state |
| [Us] Rated Supply Voltage | 12...24 V DC with reverse polarity protection |
| Supply Voltage Limits | 10...36 V DC |
| Switching Capacity In Ma | <= 100 mA (overload and short-circuit protection) |
| Switching Frequency | <= 500 Hz |

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

| | |
|------------------------|------------------------|
| Maximum Voltage Drop | <1.5 V (closed state) |
| Current Consumption | 35 mA no-load |
| Maximum Delay First Up | 15 ms |
| Maximum Delay Response | 1 ms |
| Maximum Delay Recovery | 1 ms |
| Setting-Up | Sensitivity adjustment |
| Diameter | 18 mm |
| Length | 78 mm |
| Net Weight | 0.045 kg |

Environment

| | |
|---------------------------------------|---|
| Product Certifications | CE UL CSA |
| Ambient Air Temperature For Operation | -25...55 °C |
| Ambient Air Temperature For Storage | -40...70 °C |
| Vibration Resistance | 7 gn, amplitude = +/- 1.5 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 IP65 double insulation conforming to IEC 60529 IP69K double insulation conforming to DIN 40050 |

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 4.2 cm |
| Package 1 Width | 9.6 cm |
| Package 1 Length | 6.7 cm |
| Package 1 Weight | 36.0 g |
| Unit Type Of Package 2 | S01 |
| Number Of Units In Package 2 | 22 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 15.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 1.108 kg |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

Well-being performance

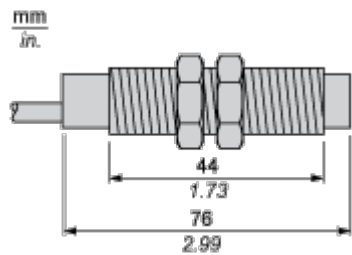
 Rohs Exemption Information [Yes](#)

Certifications & Standards

| | |
|---------------------------|--|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| 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 Diisodecyl 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 |

Dimensions Drawings

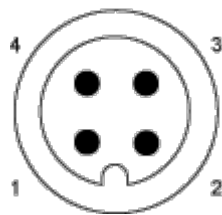
Dimensions



Connections and Schema

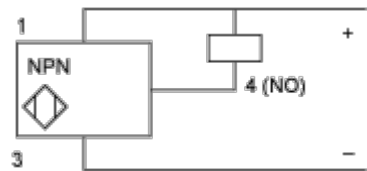
Wiring Schemes

M12 Connector



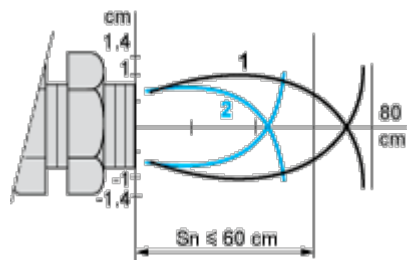
- 1 : (+)
- 3 : (-)
- 4 : OUT/Output

NPN Outputs



Performance Curves

Detection Curves



- 1 : White 90%
- 2 : Grey 18%

Object 10 x 10 cm