XUB0BPSNL2

Photoelectric sensors XU, XUB, multi, Sn 0...20 m, 12...24 VDC, cable 2 m



Main

| IVIAIII | |
|-------------------------------|---|
| Range of product | Telemecanique Photoelectric sensors XU |
| Series name | General purpose multimode |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUB |
| Sensor design | Cylindrical M18 |
| Detection system | Multimode |
| Material | Metal |
| Line of sight type | Axial |
| 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 | Cable |
| Cable length | 2 m |
| Product specific application | - |
| Emission | Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex |
| [Sn] nominal sensing distance | 3 M polarised reflex need reflector XUZC50 20 M thru beam need a transmitter XUB0BKSNL2T 0.12 M diffuse with background suppression |

0.3 m diffuse

Complementary

| Enclosure material | Nickel plated brass |
|---------------------------|--|
| Lens material | PMMA |
| Maximum sensing distance | 0.12 M diffuse with background suppression 0.4 M diffuse 30 M thru beam 4.5 m polarised reflex |
| Output type | Solid state |
| Add on output | Without |
| Wire insulation material | PvR |
| Status LED | 1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state |
| [Us] rated supply voltage | 1224 V DC with 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 | 18 mm |

| Length | 64 mm |
|--|---|
| Net weight | 0.105 kg |
| Environment | |
| Product certifications | CE[RETURN]CSA[RETURN]UL |
| Ambient air temperature for operation | -2555 °C |
| Ambient air temperature for storage | -4070 °C |
| Vibration resistance | 7 gn, amplitude = +/- 1.5 mm (f = 1055 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |
| IP degree of protection | IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529 |
| Packing Units | |
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.2 cm |
| Package 1 Width | 9.7 cm |
| Package 1 Length | 13.2 cm |
| Package 1 Weight | 124.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 22 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.198 kg |
| 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 |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |



18 months

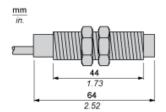
Contractual warranty

Warranty

Product data sheet Dimensions Drawings

XUB0BPSNL2

Dimensions

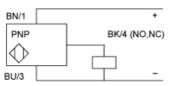


Product data sheet Connections and Schema

XUB0BPSNL2

Connections and Schemes

PNP

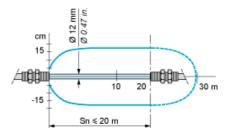


BN: Brown BU: Blue BK: Black

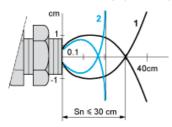
XUB0BPSNL2

Detection Curves

With Thru-beam Accessory (Thru-beam)

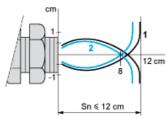


Without Accessory (Diffuse)



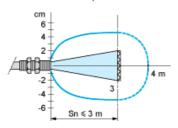
1: White 90% 2: Grey 18% Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



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

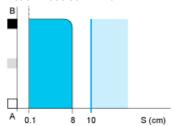
With reflector (Polarised reflex)



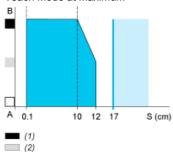
With reflector XUZC50

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

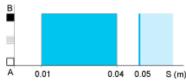
Black 6% (1)

(3) (4) (5)

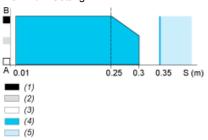
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B: Object reflection coefficient

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