

XUM0ANSAL2

Photoelectric sensors XU, XUM, multi, Sn
0...10 m, 12...24 VDC, cable 2 m



Main

| | |
|-------------------------------|--|
| Range of Product | Telemecanique Photoelectric sensors XU |
| Series name | General purpose multimode |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUM |
| Sensor design | Miniature |
| Detection system | Multimode |
| Material | Plastic |
| Type of output signal | Discrete |
| Supply circuit type | DC |
| Wiring Technique | 3-wire |
| Discrete output type | NPN |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | Cable |
| Cable length | 6.56 ft (2 m) |
| Product Specific Application | - |
| Emission | Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex |
| [Sn] nominal sensing distance | 9.84 Ft (3 m) polarised reflex need reflector XUZC50 32.81 Ft (10 m) thru beam need a transmitter XUM0AKSAL2T 0.33 Ft (0.1 m) diffuse with background suppression 1.31 ft (0.4 m) diffuse |

Complementary

| | |
|---------------------------|---|
| Enclosure Material | PBT |
| Lens material | PMMA |
| Maximum sensing distance | 45.93 Ft (14 m) thru beam 13.12 Ft (4 m) polarised reflex 0.33 Ft (0.1 m) diffuse with background suppression 1.80 ft (0.55 m) diffuse |
| Output Type | Solid state |
| Add on output | With alarm output, 50 mA |
| Wire insulation material | PvR |
| Status LED | 1 LED green)supply 1 LED red)instability 1 LED yellow)output state |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| 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 | 100 ms |
| Maximum delay response | 2 ms |
| Maximum delay recovery | 2 ms |
| Setting-up | Self-teaching |
| Depth | 0.79 in (20 mm) |
| Height | 1.34 in (34 mm) |

| | |
|------------|-----------------------|
| Width | 0.47 in (12 mm) |
| Net Weight | 0.11 lb(US) (0.05 kg) |

Environment

| | |
|---------------------------------------|--|
| Product Certifications | CSA CE UL |
| Ambient air temperature for operation | -13...131 °F (-25...55 °C) |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Vibration resistance | 7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6 |
| Shock resistance | 30 gn 11 ms) IEC 60068-2-27 |
| IP degree of protection | IP65 double insulation IEC 60529 IP67 double insulation IEC 60529 |

Ordering and shipping details

| | |
|-----------------------|--------------------------------|
| Category | 22481 - SENSORS, PHOTOELECTRIC |
| Discount Schedule | DS2 |
| GTIN | 3389110164664 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.25 oz (92 g) |
| Returnability | Yes |
| Country of origin | ID |

Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.65 in (4.2 cm) |
| Package 1 width | 3.82 in (9.7 cm) |
| Package 1 Length | 5.20 in (13.2 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 22 |
| Package 2 Weight | 5.34 lb(US) (2.422 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) |

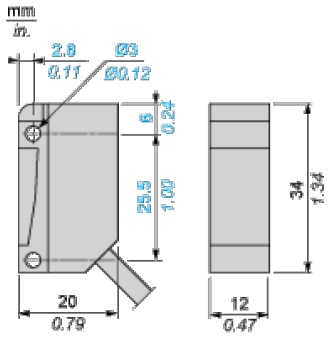
Offer Sustainability

| | |
|----------------------------|---|
| 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

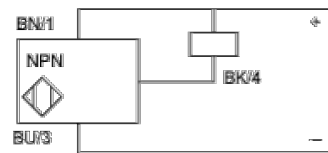
| | |
|----------|-----------|
| Warranty | 18 months |
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Dimensions



Wiring Schemes

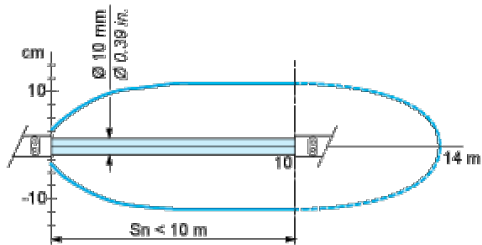
Receiver, NPN Output



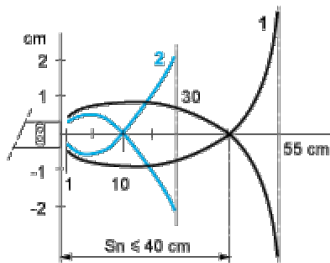
BN : Brown
BU : Blue
BK : Black

Detection Curves

With Thru-beam Accessory (Thru-beam)

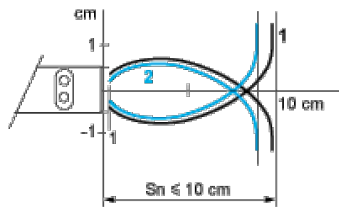


Without Accessory (Diffuse)



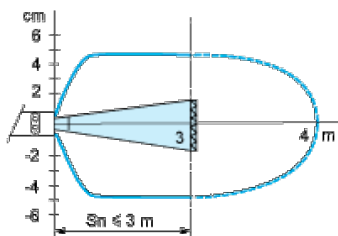
- 1 : White 90%
 - 2 : Grey 18%
- Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



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

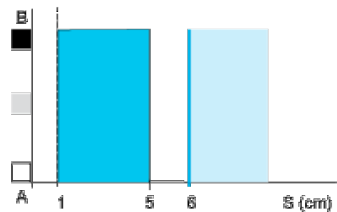
With reflector (Polarised reflex)



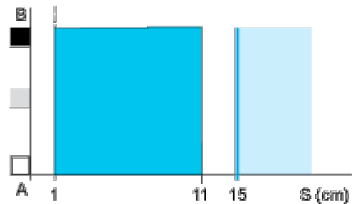
With reflector XUZC50

Variation of Usable Sensing Distance S_u (Without accessory, with adjustable background suppression)

Teach Mode at Minimum



Teach Mode at Maximum



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

A-B : Object reflection coefficient

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