



## 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 | 0.33 ft (0.1 m) diffuse                |

## Complementary

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Enclosure Material        | PBT                                              |
| Lens material             | PMMA                                             |
| Maximum sensing distance  | 0.49 ft (0.15 m) diffuse                         |
| Output Type               | Solid state                                      |
| Add on output             | Without                                          |
| Wire insulation material  | PvR                                              |
| Status LED                | 1 LED yellow)output state                        |
| [Us] rated supply voltage | 12...24 V DC 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                                        |
| 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                | Without sensitivity adjustment                   |
| Diameter                  | 0.71 in (18 mm)                                  |
| Length                    | 2.44 in (62 mm)                                  |
| Product Weight            | 0.09 lb(US) (0.04 kg)                            |

## Environment

|                                       |                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Product Certifications                | UL<br>CE<br>CSA                                                                                           |
| 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               | IP67 double insulation IEC 60529<br>IP65 double insulation IEC 60529<br>IP69K double insulation DIN 40050 |

## Ordering and shipping details

|                   |                                     |
|-------------------|-------------------------------------|
| Category          | 22415-SENSORS, PHOTOELECTRIC, BASIC |
| Discount Schedule | DS2                                 |
| GTIN              | 3389110153002                       |
| Returnability     | No                                  |
| Country of origin | FR                                  |

## Packing Units

|                              |                    |
|------------------------------|--------------------|
| Unit Type of Package 1       | PCE                |
| Number of Units in Package 1 | 1                  |
| Package 1 Height             | 2.56 in (6.5 cm)   |
| Package 1 Width              | 3.74 in (9.5 cm)   |
| Package 1 Length             | 1.65 in (4.2 cm)   |
| Package 1 Weight             | 1.16 oz (33.0 g)   |
| Unit Type of Package 2       | S01                |
| Number of Units in Package 2 | 11                 |
| Package 2 Height             | 5.91 in (15.0 cm)  |
| Package 2 Width              | 5.91 in (15.0 cm)  |
| Package 2 Length             | 15.75 in (40.0 cm) |
| Package 2 Weight             | 20.74 oz (588.0 g) |

## 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

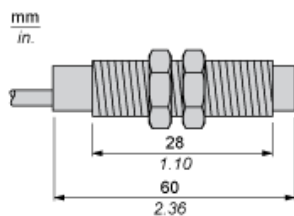
## Contractual warranty

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

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Dimensions

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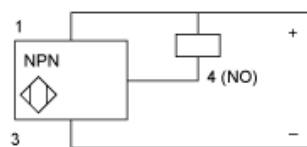
## Wiring Schemes

### M12 Connector



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

### NPN Outputs



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Detection Curves

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1 : White 90%

2 : Grey 18%

Object 10 x 10 cm