

XURK1KSMM12

photoelectric sensor - diffuse - Sn 9 mm - NO or NC - M12 connector



Main

| | |
|-------------------------------|--|
| Range of product | OsiSense XU |
| Series name | Application packaging |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUR |
| Sensor design | Compact |
| Detection system | Diffuse |
| Emission | Red or green |
| [Sn] nominal sensing distance | 9 mm spot 1.5 x 5 mm without lens 18 mm spot 2 x 7 mm need lens XURZ01 7 mm spot 1 x 4 mm need lens XURZ02 |
| Material | Metal |
| Switching frequency | <= 10 kHz |
| Type of output signal | Analogue Discrete |
| Supply circuit type | DC |
| Wiring technique | 3-wire |
| Discrete output type | PNP or NPN |
| Discrete output function | 1 NO or 1 NC programmable |
| Analogue output range | 0...5.5 V, DC |
| Electrical connection | 1 male connector M12 adjustable 3 positions, 4 pins |
| Product specific application | Colour mark |
| Sale per indivisible quantity | 1 |

Complementary

| | |
|--------------------------------|--|
| Enclosure material | Zinc alloy |
| Lens material | Glass |
| Minimum width of mark detected | 0.5 mm |
| Maximum inclination of reader | 20 ° |
| Passing speed of object | 10 m/s, minimum detected mark width:1 mm |
| Output type | Solid state |
| Output function governance | Light or dark programmable |
| Add on output | With analogue output |
| Status LED | 1 LED (red) for output state |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Supply voltage limits | DC |
| Switching capacity in mA | <= 200 mA (overload and short-circuit protection) |
| Voltage drop | <= 1 V (closed state), NPN <= 2 V (closed state), PNP |
| Current consumption | <= 80 mA (no-load) |
| Time delay range | 20 ms off-delay activation/deactivation by internal switch delay |
| Delay first up | <= 100 ms |
| Delay response | <= 0.05 ms |
| Delay recovery | <= 0.05 ms |
| Setting-up | Sensitivity adjustment with teach mode |
| Depth | 58 mm |
| Height | 82 mm |
| Width | 31 mm |

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.

Product weight 0.55 kg

Environment

| | |
|---------------------------------------|---|
| product certifications | CE |
| ambient air temperature for operation | -10...55 °C |
| ambient air temperature for storage | -20...70 °C |
| vibration resistance | 7 gn, amplitude = +/- 0.6 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 conforming to IEC 60529 |

Offer Sustainability

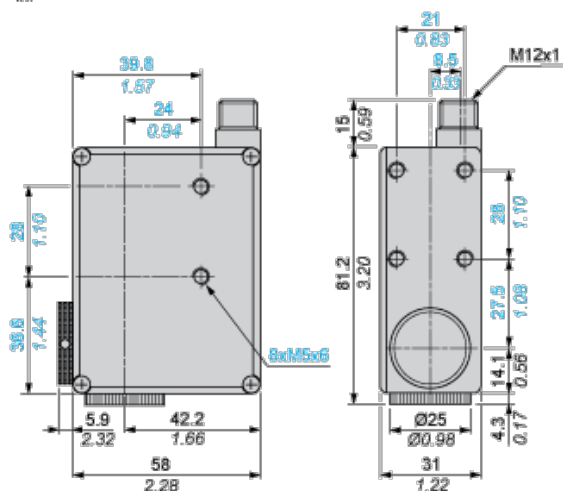
| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0623 - Schneider Electric declaration of conformity |

Contractual warranty

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

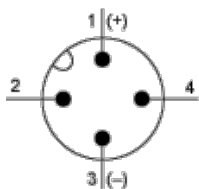
Dimensions

mm
in.



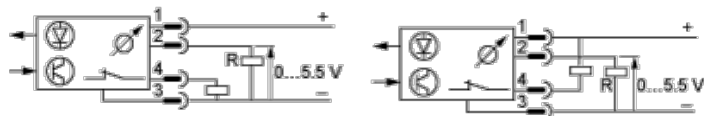
Wiring Schemes

Connector Scheme



- 1/Brown :10...30 VDC
- 2/White :Adjustment input
- 3/Blue :0 V
- 4/Black :Output

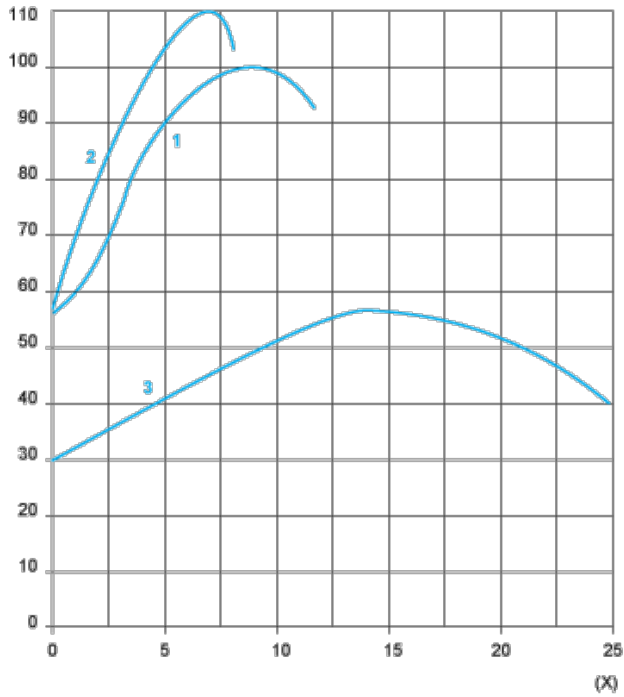
PNP or NPN Programmable



R = 2.2 kΩ

Curves

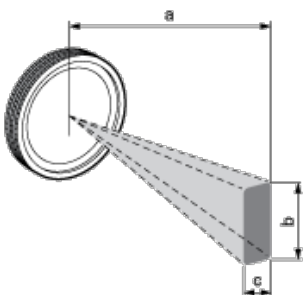
Detection Curve



(x) Distance (mm)

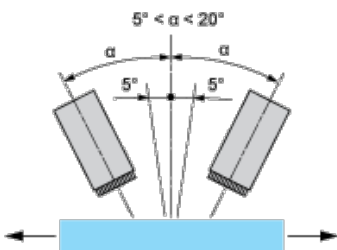
- 1 : XURK●●●●●●●●
- 2 : With XURZ01
- 3 : With XURZ02

Detection Zone and Spot Size (mm)



| | a | b | c |
|-------------|----|---|-----|
| | 9 | 9 | 1.5 |
| With XURZ01 | 18 | 7 | 2 |
| With XURZ02 | 7 | 4 | 1 |

Vertical Inclination



An angle of 5 to 10° from vertical is recommended for reflective or transparent surfaces Maximum vertical inclination: 20°