

XUK9LAPSMM12

photo-electric laser sensor - XUK - polarised reflex -
Sn 14m - 10..30VDC - M12



Main

| | |
|-------------------------------|---|
| Range of product | OsiSense XU |
| Series name | Application assembly Application material handling |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUK |
| Sensor design | Compact 50 x 50 |
| Detection system | Polarised reflex |
| Material | Plastic |
| Type of output signal | Discrete |
| Supply circuit type | DC |
| Wiring technique | 4-wire |
| Discrete output type | PNP |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | 1 male connector M12, 4 pins |
| Product specific application | - |
| Emission | Red laser polarised reflex (class 1) |
| [Sn] nominal sensing distance | 12 m polarised reflex need reflector XUZC50HP |

Complementary

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|---------------------------|--|
| Enclosure material | ABS/PC |
| Lens material | PMMA |
| Maximum sensing distance | 14 m polarised reflex need reflector XUZC50HP |
| Output type | Solid state |
| Status LED | 1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state |
| [Us] rated supply voltage | 24 V DC with reverse polarity protection |
| Supply voltage limits | 10...30 V DC |
| Switching capacity in mA | <= 100 mA (overload and short-circuit protection) |
| Switching frequency | <= 2000 Hz |
| Voltage drop | <= 2 V |
| Current consumption | <= 60 mA (no-load) |
| Delay first up | < 300 ms |
| Delay response | < 2 ms |
| Delay recovery | < 2 ms |
| Setting-up | Using teach button or remote teaching |
| Depth | 50 mm |
| Height | 50 mm |
| Width | 23 mm |
| Product weight | 0.035 kg |

Environment

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|---------------------------------------|---|
| product certifications | CE CULus Ecolab |
| ambient air temperature for operation | -20...60 °C -20...50 °C |
| ambient air temperature for storage | -20...80 °C |
| vibration resistance | 7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |

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| shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |
| IP degree of protection | IP67 conforming to IEC 60529 IP69K conforming to DIN 40050 |

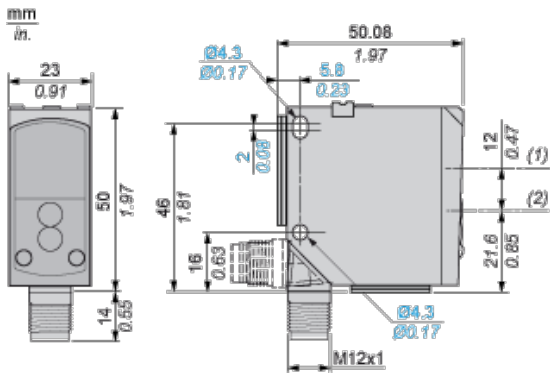
Offer Sustainability

| | |
|--------------------------|---------------------------|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Will not be Compliant |

Contractual warranty

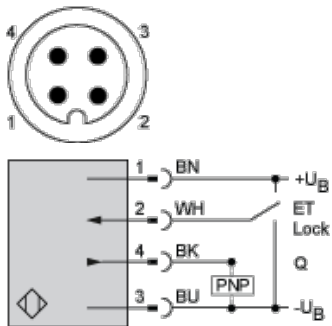
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



- (1) Receiver optical axis
- (2) Transmitter optical axis

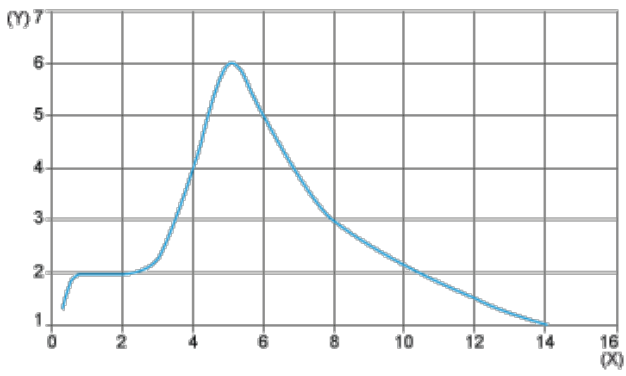
Wiring Schemes Using M12 Connector



- 1 : (+)
- 2 : ET/Lock (1)
- 3 : (-)
- 4 : Output
- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- +UB : External teach
- UB : Pushbutton locking
- (1) ET/Lock. ET: External Teach, Lock: Pushbutton locking

Curves

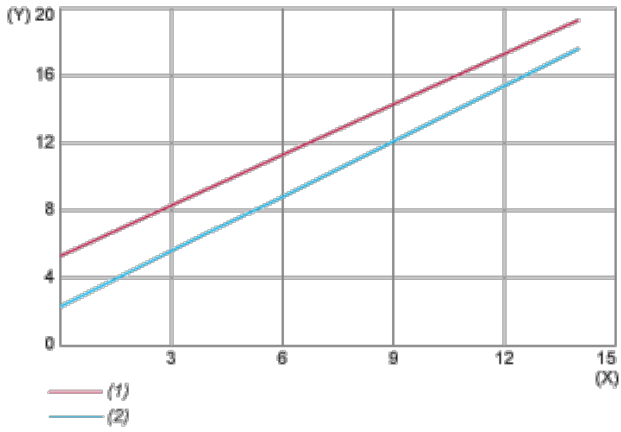
Excess Gain Curve



(X) Distance (m)

(Y) Gain

Size of Luminous Point



(X) Distance (m)

(Y) Size (mm)

(1) Vertical (Y)

(2) Horizontal (X)