



Main

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|-------------------------------|---|
| 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 | Thru beam |
| 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 thru beam |
| [Sn] nominal sensing distance | 82.02 ft (25 m) thru beam need transmitter XUK2LAKSMM12T |

Complementary

| | |
|---------------------------|--|
| Enclosure material | ABS/PC |
| Lens material | PMMA |
| Maximum sensing distance | 98.43 ft (30 m) thru beam |
| Output type | Solid state |
| Add on output | Without |
| Add on input | External teach |
| Status LED | 1 LED (green) supply on 1 LED (red) alignment assistance 1 LED (yellow) output state |
| [Us] rated supply voltage | |
| Supply voltage limits | 10...30 V DC |
| Switching capacity in mA | <= 100 mA (overload and short-circuit protection) |
| Switching frequency | <= 500 Hz |
| Voltage drop | <= 2.4 V (closed state) |
| Current consumption | <= 30 mA (no-load) |
| Delay first up | < 300 ms |
| Delay response | < 0.14 ms |
| Delay recovery | < 0.14 ms |
| Setting-up | Using teach button or remote teaching |
| Depth | 1.97 in (50 mm) |
| Height | 1.97 in (50 mm) |
| Width | 0.91 in (23 mm) |
| Product weight | 0.08 lb(US) (0.035 kg) |

Environment

| | |
|---------------------------------------|--|
| product certifications | CE CULus Ecolab |
| ambient air temperature for operation | -4...140 °F (-20...60 °C) -4...122 °F (-20...50 °C), UL certified |

The information provided in this documentation contains general descriptions and/or technical characteristics 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.

| | |
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| ambient air temperature for storage | -4...176 °F (-20...80 °C) |
| vibration resistance | 7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60947-5-2 |
| IP degree of protection | IP67 conforming to IEC 60529 IP69K conforming to DIN 40050 |

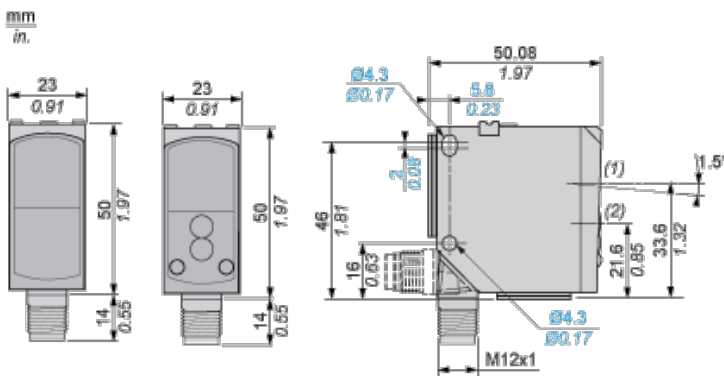
Offer Sustainability

| | |
|--|--|
| Not Green Premium product | Not Green Premium product |
| Will not be Compliant | Will not be Compliant |
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and | 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. | 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 more information go to www.p65warnings.ca.gov |

Contractual warranty

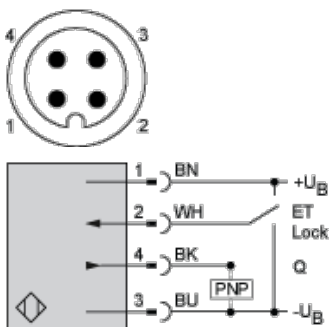
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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

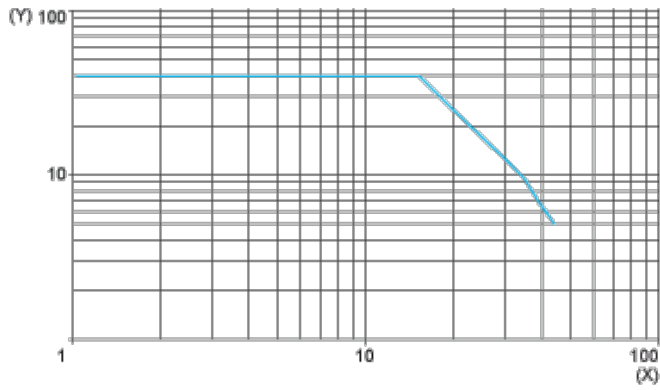
+UB :External teach

-UB :Pushbutton locking

(1) ET/Lock. ET: External Teach, Lock: Pushbutton locking

Curves

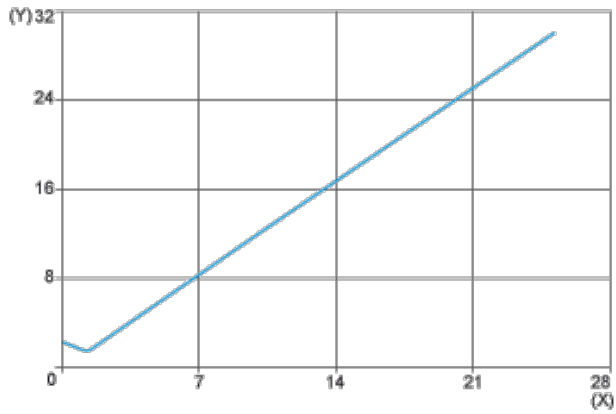
Excess Gain Curve



(X) Distance (m)

(Y) Gain

Size of Luminous Point



(X) Distance (m)

(Y) Size (mm)