Product data sheet
Characteristics

XUM8APCNM8
photo-electric sensor - XUM - BGS - Sn 0.3m - 12..24VDC - M8



Main

Range of product	OsiSense XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUM
Sensor design	Miniature
Detection system	Diffuse with background suppression
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M8, 4 pins
Product specific application	-
Emission	Red diffuse with background suppression
[Sn] nominal sensing distance	0.3 m diffuse with background suppression

Complementary

Enclosure material	PBT
Lens material	PC
Maximum sensing distance	0.3 m diffuse with background suppression
Output type	Solid state
Wire insulation material	PVC
Status LED	1 LED (yellow) for output state 1 LED (red) for instability
[Us] rated supply voltage	12...24 V DC
Supply voltage limits	10…30 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	30 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Setting-up	Without sensitivity adjustment
Depth	27 mm
Height	38 mm
Length	11 mm
Width	12 mm
Net weight	0.02 kg

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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.
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Environment

Product certifications	CE UL CSA
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for storage	-30…70 °C
Immunity to ambient light	3000 Lux natural light 3000 lux incandescent light
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 60068-2-27
IP degree of protection	IP67 double insulation conforming to IEC 60529 IP65 double insulation conforming to IEC 60529

Packing Units

Package 1 Weight	0.014 kg
Package 1 Height	0.150 dm
Package 1 width	1.600 dm
Package 1 Length	2.000 dm

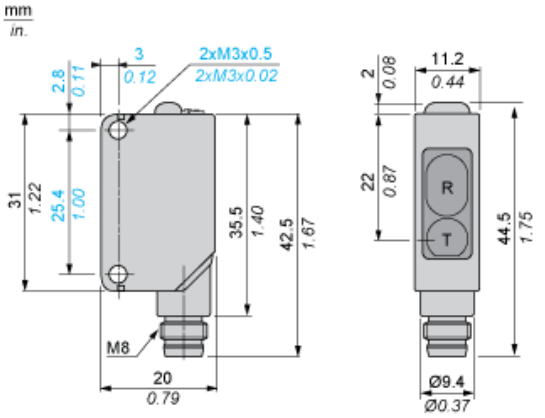
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

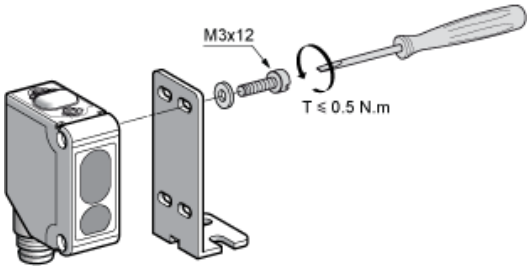
Warranty	18 months

Dimensions



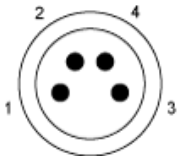
R : Reception
T : Transmission

Mounting



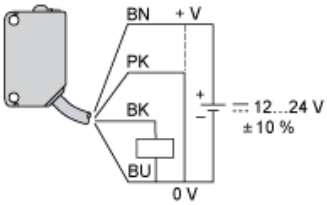
Wiring Schemes

M8 Connector



1 : (+)
2 : Mode/Input
3 : (-)
4 : Output

PNP Output

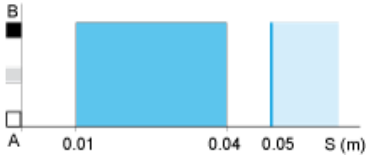


BU : Blue
BN : Brown
BK : Black
PK : Pink
Note :This scheme is represented in "background suppression" mode, cabling of pink (PK) wire to 0 V

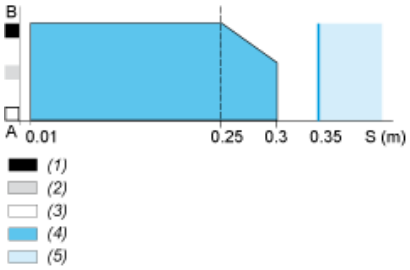
Detection Curves

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B : Object reflection coefficient
(1) Black 6%
(2) Grey 18%
(3) White 90%
(4) Sensing range
(5) Non sensing zone (matt surfaces)