

Product datasheet

Specifications



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

XUM8APCNM8

⚠ Discontinued on: 31 December 2022

⚠ To be discontinued

Main

Range of product	Telemecanique Photoelectric sensors 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

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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.5 cm
Package 1 Width	16.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	14.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	48
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	946.0 g
Unit Type of Package 3	P06
Number of Units in Package 3	1536
Package 3 Height	75 cm
Package 3 Width	60 cm
Package 3 Length	80 cm

Package 3 Weight	56 kg
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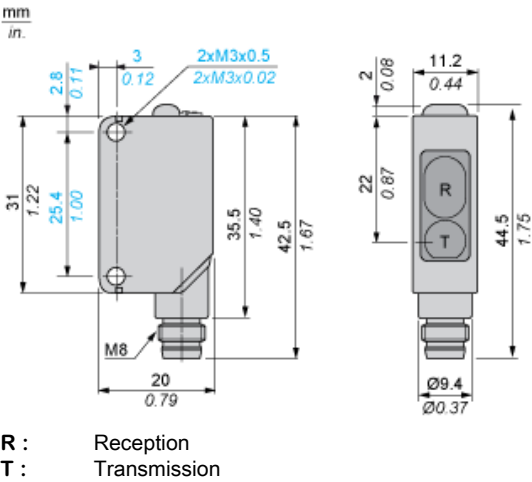
Offer Sustainability

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

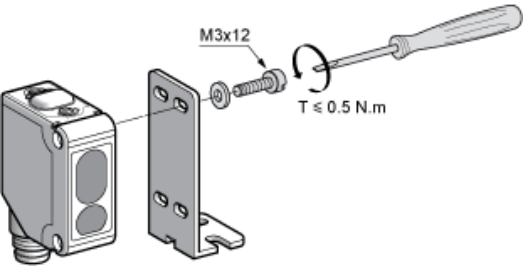
Contractual warranty

Warranty	18 months
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Dimensions

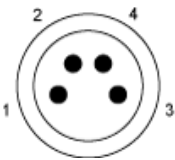


Mounting



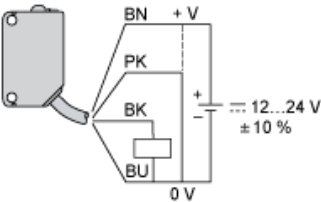
Wiring Schemes

M8 Connector



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

PNP Output

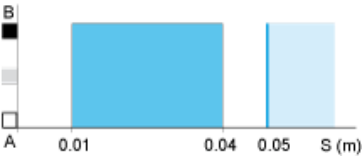


- BU : Blue
- BN : Brown
- BK : Black
- PK : Pink
- Note : This scheme is represented in "background suppression" mode, cabling of pink (PK) wire to 0 V

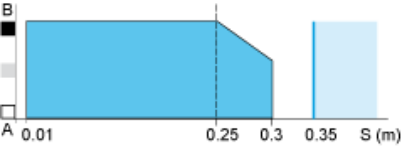
Detection Curves

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

(1) Black 6%

(2) Grey 18%

(3) White 90%

(4) Sensing range

(5) Non sensing zone (matt surfaces)

Recommended replacement(s)