

Product data sheet

XU8M18MA230

Photoelectric sensor XU8, BGS, Sn 0.12 m, 24...240 VAC/DC, cable 2 m

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Sensor name	XU8
Electronic sensor type	Photo-electric sensor
Sensor design	Cylindrical M18
Product specific application	Not applicable
ETIM classification	ETIM 9 - EC002719 - Light scanner with background masking
Material	Metal
Lens material	PMMA
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	0.12-0.12 m diffuse with background suppression
Maximum sensing distance	0.12 m
Wiring technique	2-wire
Diameter	18 mm
Detection system	Diffuse with background suppression
Delay response	20 ms
Indivisible sale quantity	1

Complementary

Sensing range	> 0...0.3 m
Electrical connection	Cable
Cable length	2 m
Supply voltage limits	20-264 V AC/DC
[Us] rated supply voltage	24...240 V AC/DC
Supply circuit type	AC/DC
Switching capacity in mA	10...200 mA (to be used with 0.4 A quick-blow fuse in series with the load)
Maximum voltage drop	<6 V (closed state)
Emission	Infrared diffuse with background suppression
Setting-up	Sensitivity adjustment

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.
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Output type	Solid state
Type of output signal	Discrete
Add on output	Without
Discrete output function	1 NO
Status LED	1 LED (yellow) for output state
Delay first up	300 ms
Delay recovery	20 ms
Length	82 mm
Product weight	0.15 kg

Environment

IP degree of protection	IP67 double insulation conforming to IEC 60529
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for operation	-25-55 °C
Ambient air temperature for storage	-40…70 °C
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 10-55 Hz) conforming to IEC 60068-2-6

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov

Warranty

Warranty	18 months

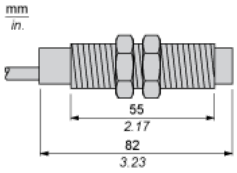
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916037089
Package 1 height	4.1 cm
Package 1 width	9.4 cm
Package 1 length	13 cm
Package 1 weight	0.15 kg
Unit type of package 2	S02
Number of units in package 2	22
New Package 2 GTIN 14	13666916037086
Package 2 height	15 cm

Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	3.32 kg
Unit type of package 3	CAR
Number of units in package 3	1
New Package 3 GTIN 14	23666916037083
Package 3 height	13 cm
Package 3 width	4.1 cm
Package 3 length	9.4 cm
Package 3 weight	0.133 kg

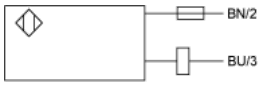
Technical Drawings

Dimensions



Wiring Schemes

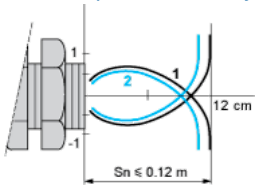
2-wire AC or DC



- BU : Blue
- BN : Brown

Detection Curves

Diffuse System with Adjustable Background Suppression

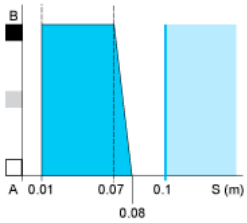


- 1 : White 90%
- 2 : Grey 18%

Object 10 x 10 cm

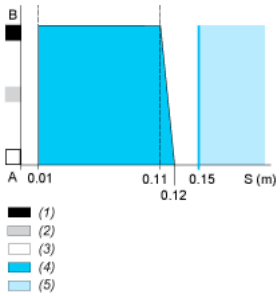
Detection Curves

Variation of Usable Sensing Distance Su



- 1 : White 90%
- 2 : Grey 18%

Variation of Usable Sensing Distance Su



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