XU8M18MA230K

Photoelectric sensors XU, XU8, BGS, Sn 0.12 m, 24...240VAC/DC, 1/2"



Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XU8
Sensor design	Cylindrical M18
Detection system	Diffuse with background suppression
Material	Metal
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring technique	2-wire
Discrete output function	1 NO
Electrical connection	1 male connector 1/2"20 UNF, 3 pins
Product specific application	-
Emission	Infrared diffuse with background suppression
[Sn] nominal sensing distance	0.12 m diffuse with background suppression

Complementary

5,000
PMMA
0.12 m
Solid state
Without
1 LED (yellow) for output state
24240 V AC/DC
20264 V AC/DC
1.5 mA open state
10200 mA (to be used with 0.4 A quick-blow fuse in series with the load)
<= 25 Hz
<6 V (closed state)
300 ms
20 ms
20 ms
Sensitivity adjustment
18 mm
95 mm
0.075 kg

Environment

Product certifications	UL[RETURN]CE[RETURN]CSA
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 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 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.0 cm
Package 1 Width	6.4 cm
Package 1 Length	10.0 cm
Package 1 Weight	84.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.02 kg

Offer Sustainability

Sustainable offer status	Green Premium product
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

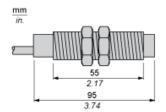
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

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Dimensions

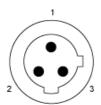


Product data sheet Connections and Schema

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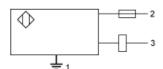
Wiring Schemes

Connector



1: Grounding 2: AC/DC 3: AC/DC

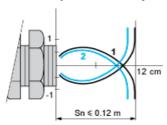
2-wire AC or DC



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Detection Curves

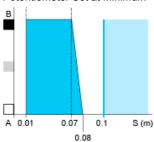
Diffuse System with Adjustable Background Suppression



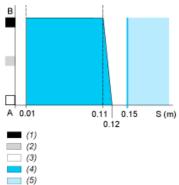
1: White 90% 2: Grey 18% Object 10 x 10 cm

Variation of Usable Sensing Distance Su

Potentiometer Set at Minimum



Potentiometer Set at Maximum



A-B: Object reflection coefficient

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