Product data sheet Characteristics

XU8M18MB230WK

photo-electric sensor - XU8 - BGS - 90° - Sn 0.12m - 24..240VAC/DC - 1/2"





Main	
Range of product	OsiSense 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	90° lateral
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring technique	2-wire
Discrete output function	1 NC
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 Enclosure material Nickel plated brass Lens material **PMMA** Maximum sensing distance 0.12 m Output type Solid state Add on output Without Status LED 1 LED (yellow) for output state 24...240 V AC/DC [Us] rated supply voltage Supply voltage limits 20...264 V AC/DC Maximum residual current 1.5 mA open state Switching capacity in mA 10...200 mA (to be used with 0.4 A quick-blow fuse in series with the load) Switching frequency <= 25 Hz <6 V (closed state) Maximum voltage drop 300 ms Maximum delay first up Maximum delay response 20 ms 20 ms Maximum delay recovery Setting-up Sensitivity adjustment Diameter 18 mm Length 110 mm Net weight 0.075 kg



Environment

UL CSA CE	
-2555 °C	
-4070 °C	
7 gn, amplitude = +/- 1.5 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
30 gn (duration = 11 ms) conforming to IEC 60068-2-27	
IP67 conforming to IEC 60529	

Packing Units

Package 1 Weight	0.001 kg	
Package 1 Height	0.010 dm	
Package 1 width	0.010 dm	
Package 1 Length	0.020 dm	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) Pro-active compliance (Product out of EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₫ Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

Contractual warranty

Warranty

18 months



Product data sheet Dimensions Drawings

XU8M18MB230WK

Dimensions





XU8M18MB230WK

Wiring Schemes

Connector



- Grounding AC/DC AC/DC
- 2: 3:

2-wire AC or DC





Product data sheet Performance Curves

XU8M18MB230WK

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





A-B : Object reflection coefficient

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

