Product data sheet Characteristics

XUB0SPSNM12

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - M12





Main	
Range of product	OsiSense XU
Series name	Application food and beverage mutlimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Multimode
Material	Stainless steel
Line of sight type	Axial
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 M12, 4 pins
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	3 M polarised reflex need reflector XUZC50 20 M thru beam need a transmitter XUB0SKSNM12T 0.12 M diffuse with background suppression 0.3 m diffuse

Complementary

Complementary		
Enclosure material	Stainless steel : 304 CU	
Lens material	PMMA	
Maximum sensing distance	0.12 M diffuse with background suppression 0.4 M diffuse 30 M thru beam 4.5 m polarised reflex	
Output type	Solid state	
Status LED	1 LED (green) for output state 1 LED (red) for supply on 1 LED (yellow) for stability	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Supply voltage limits	1036 V DC	
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)	
Switching frequency	<= 250 Hz	
Maximum voltage drop	<1.5 V (closed state)	
Current consumption	35 mA no-load	
Maximum delay first up	200 ms	
Maximum delay response	2 ms	
Maximum delay recovery	2 ms	
Setting-up	Self-training	
Diameter	18 mm	
Length	78 mm	
Net weight	0.055 kg	



Environment

Product certifications	CSA
	UL
	CE
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	IP65 double insulation conforming to IEC 60529
	IP67 double insulation conforming to IEC 60529
	IP69K double insulation conforming to DIN 40050

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	72 g
Package 1 Height	6.6 cm
Package 1 width	9.2 cm
Package 1 Length	4.4 cm
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Weight	1.805 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

Green Premium product
REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope) CEU RoHS Declaration
Yes
Yes
Product Environmental Profile
Pind of Life Information

Contractual warranty

Warranty

18 months



Product data sheet Dimensions Drawings

XUB0SPSNM12

Dimensions





XUB0SPSNM12

Wiring Schemes

M12 Connector



- 4:
- 2:

PNP





Product data sheet Performance Curves

XUB0SPSNM12

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)



2: Grey 18%

Object: 10 x 10 cm

Without Accessory (Diffuse with Background. Suppression



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

With Reflector XUZC50 (Polarised Reflex)





Variation of Usable Sensing Distance Su (Without Accessory, with Adjustable Background Suppression) Teach mode at minimum



- A-B : Object reflection coefficient

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

