XUB0SPSWM12

photo-electric sensor - XUB - multi - 90° - Sn 0..7m - 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	90° lateral
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	1.5 M polarised reflex need reflector XUZC50 7 M thru beam need a transmitter XUB0SKSWM12T 0.11 M diffuse with background suppression 0.2 m diffuse

Complementary

Complementary	
Enclosure material	Stainless steel : 304 CU
Lens material	PMMA
Maximum sensing distance	2 M polarised reflex 0.11 M diffuse with background suppression 0.3 M diffuse 10 m thru beam
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	92 mm

Environment

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

Packing Units

Package 1 Weight	0.076 kg	
Package 1 Height	0.420 dm	
Package 1 width	0.960 dm	
Package 1 Length	0.650 dm	

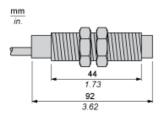
Contractual warranty

Warranty 18 months	Warranty
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Product data sheet Dimensions Drawings

XUB0SPSWM12

Dimensions

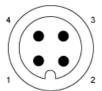


Product data sheet **Connections and Schema**

XUB0SPSWM12

Wiring Schemes

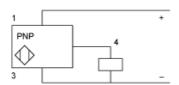
M12 Connector



3 : (-) 1:

(+) OUT/Output Not connected

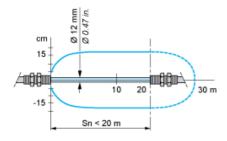
PNP



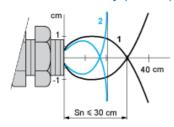
XUB0SPSWM12

Detection Curves

With Thru-beam Accessory (Thru-beam)

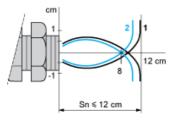


Without Accessory (Diffuse)



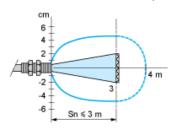
1: White 90% 2: Grey 18% Object: 10 x 10 cm

Without Accessory (Diffuse with Background. Suppression



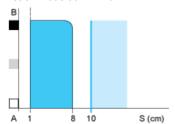
1: White 90% 2: Grey 18% Object: 10 x 10 cm

With Reflector XUZC50 (Polarised Reflex)

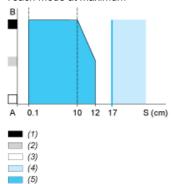


Variation of Usable Sensing Distance Su (Without Accessory, with Adjustable Background Suppression)

Teach mode at minimum



Teach mode 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)