XU2N18NP341D

photo-electric sensor - XU2 - thru beam - Sn 15m - 12..24VDC - M12





Main

Range of product	OsiSense XU
Series name	Application food and beverage
Electronic sensor type	Photo-electric sensor
Sensor name	XU2
Sensor design	Cylindrical M18
Detection system	Thru beam
Material	Stainless steel
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific	-
application	
Emission	Infrared thru beam
[Sn] nominal sensing distance	15 m thru beam

Complementary

Complementary		
Enclosure material	Stainless steel : 304 CU	
Lens material	PMMA	
Maximum sensing distance	20 m	
Output type	Solid state	
Add on output	Without	
Add on input	Breaking test + programming	
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Supply voltage limits	1030 V DC	
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)	
Switching frequency	<= 500 Hz	
Maximum voltage drop	<1.5 V (closed state)	
Current consumption	<= 50 mA no-load	
Maximum delay first up	15 ms	
Maximum delay response	1 ms	
Maximum delay recovery	1 ms	
Setting-up	Without sensitivity adjustment	
Diameter	18 mm	
Length	72 mm	
Net weight	0.13 kg	
Kit composition	Transmitter + receiver	

Environment

Product certifications	UL CE CSA
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	25 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 Weight	128 g
Package 1 Height	14.5 cm
Package 1 width	8 cm
Package 1 Length	4.5 cm

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) EPEU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End of Life Information

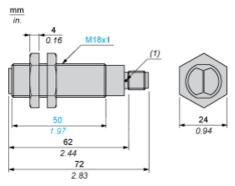
Contractual warranty

Warranty	18 months

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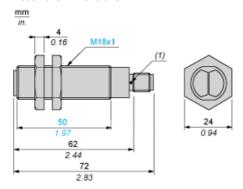
Dimensions

Transmitter's Dimensions



(1) LED

Receiver's Dimensions



(1) LED

Product data sheet Mounting and Clearance

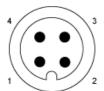
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Mounting and Clearance

Fixing nut tightening torque: < 15 N.m Connector tightening torque: 2 N.m

Wiring Schemes

M12 Connector

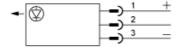


3: (-) 1: (+)

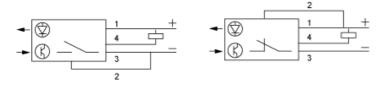
4: OUT/Output

2: Prog or beam break input (transmitter only)

Transmitter



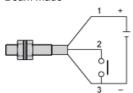
3-wire, NPN NO or NC Programmable Function



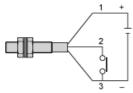
Wiring Schemes

Beam Break Input on Thru-beam Transmitter

Beam made



Beam broken



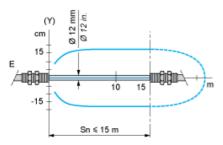
2: Beam break input

Product data sheet Performance Curves

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Detection Curves

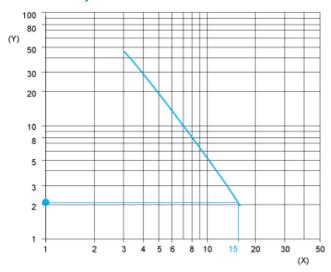
Thru-beam System



(y) Ø of beam

Excess Gain Curves (Ambient Temperature: + 25° C)

Thru-beam System



- (y) Gain
- (x) Distance (m)