XU5N18NP341WD

photo-electric sensor - XU5 - diffuse - 90° - Sn 0.10m - 12..24VDC - M12





Main

Range of product	OsiSense XU
Series name	Application food and beverage
Electronic sensor type	Photo-electric sensor
Sensor name	XU5
Sensor design	Cylindrical M18
Detection system	Diffuse
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	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.1 m diffuse

Complementary

Complementary		
Enclosure material	Stainless steel : 304 CU	
Lens material	PMMA	
Maximum sensing distance	0.15 m	
Output type	Solid state	
Add on output	Without	
Add on input	Programmation	
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	<= 30 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	88 mm	
Net weight	0.065 kg	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product certifications	CSA CE UL
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

PCE
1
71 g
4.5 cm
8.2 cm
7.2 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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End of Life Information

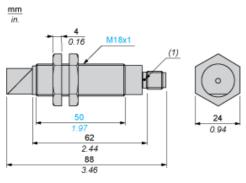
Contractual warranty

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Warranty		18 months

Product data sheet Dimensions Drawings

XU5N18NP341WD

Dimensions



Product data sheet Mounting and Clearance

XU5N18NP341WD

Mounting and Clearance

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

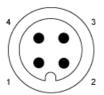


Product data sheet Connections and Schema

XU5N18NP341WD

Wiring Schemes

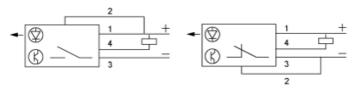
M12 Connector



3: (-)

(+) OUT/Output 4: Prog

3-wire, NPN NO or NC Programmable Function

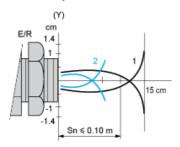


Product data sheet Performance Curves

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Detection Curves

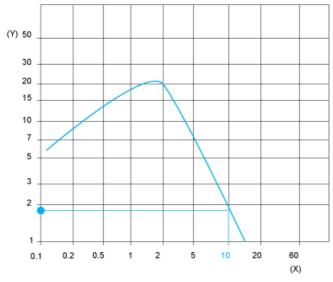
Diffuse System



(y) Ø of beam 1: White 90% 2: Grey 18% Object 10 x 10 cm

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

Diffuse System



(y) Gain(x) Distance (m)Object 10 x 10 cmWhite 90%