

Photoelectric sensors XU, XU2, thru beam, Sn 15 m, 12...24 VDC, M12

XU2N18PP341D

Range of product	Telemecanique Photoelectric sensors 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	PNP
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

Stainless steel : 304 CU
PMMA
20 m
Solid state
Without
Breaking test + programming
1 LED (green) for supply on 1 LED (yellow) for output state
1224 V DC with reverse polarity protection
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 25 gn (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

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	130.0 g
Package 1 Height	13.0 cm
Package 1 width	9.4 cm
Package 1 Length	4.0 cm
Unit Type of Package 2	S01
Number of Units in Package 2	11
Package 2 Weight	1.619 kg
Package 2 Height	15.0 cm
Package 2 width	15.0 cm
Package 2 Length	40.0 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

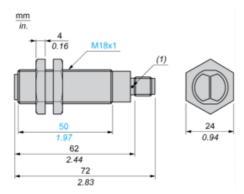
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

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Dimensions Drawings

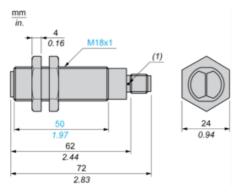
Dimensions

Transmitter's Dimensions



(1) LED

Receiver's Dimensions



(1) LED

Product data sheet

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Mounting and Clearance

Mounting and Clearance

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

Connections and Schema

Wiring Schemes

M12 Connector

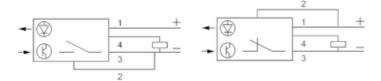


- 3:(-)
- 1:(+)
- 4 : OUT/Output
- 2 : Prog or beam break input (transmitter only)

Transmitter



3-wire, PNP NO or NC Programmable Function



Product data sheet

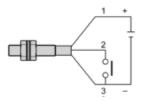
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Connections and Schema

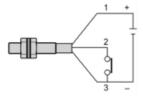
Wiring Schemes

Beam Break Input on Thru-beam Transmitter

Beam made



Beam broken



2 : Beam break input

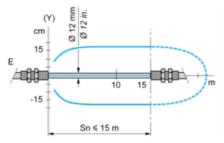
Product data sheet

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Performance Curves

Detection Curves

Thru-beam System

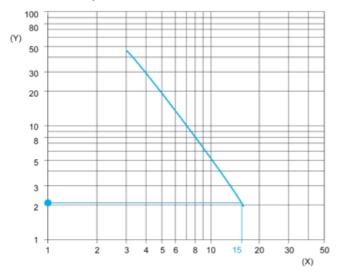


(y) Ø of beam

Performance Curves

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

Thru-beam System



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