

XU2N18NP341L5

photo-electric sensor - XU2 - thru beam - Sn
15m - 12..24VDC - cable 5m



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	Cable
Cable length	5 m
Product specific application	-
Emission	Infrared thru beam
[Sn] nominal sensing distance	15 m thru beam

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
Cable composition	4 x 0.34 mm ²
Wire insulation material	PvR
Cable outer diameter	4.2 mm
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 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	62 mm
Kit composition	Transmitter + receiver

Environment

Product certifications	UL CE CSA
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	25 gn, amplitude = +/- 1.5 mm (f = 10...55 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

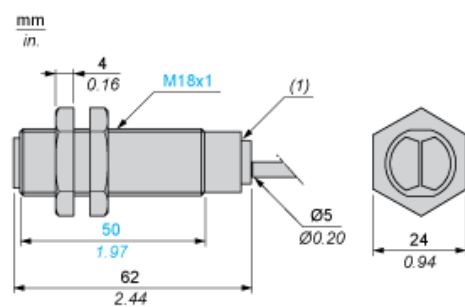
Package 1 Weight	0.570 kg
Package 1 Height	1.300 dm
Package 1 width	0.660 dm
Package 1 Length	0.940 dm

Contractual warranty

Warranty	18 months
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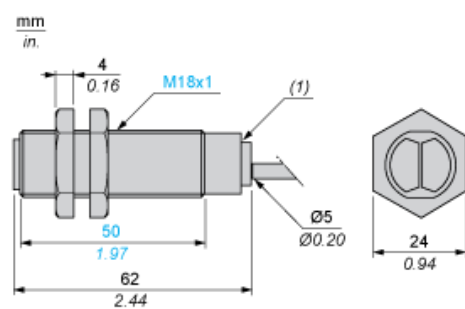
Dimensions

Transmitter's Dimensions



(1) LED

Receiver's Dimensions



(1) LED

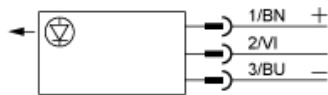
Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

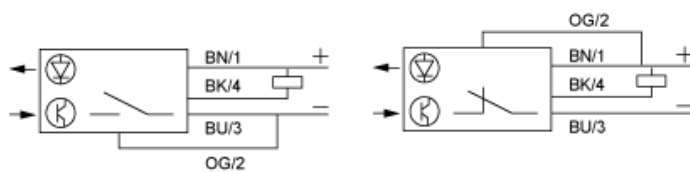
Wiring Schemes

Transmitter



BN : Brown
VI : Violet (beam break input)
BU : Blue

3-wire, NPN NO or NC Programmable Function

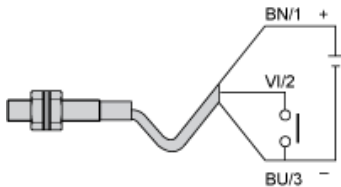


BN : Brown
BK : Black (out / output)
BU : Blue
OG : Orange (program)

Wiring Schemes

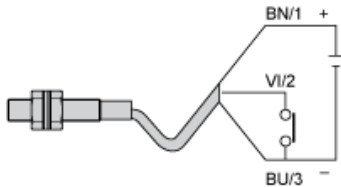
Beam Break Input on Thru-beam Transmitter

Beam made



BN : Brown
VI : Violet (beam break input)
BU : Blue

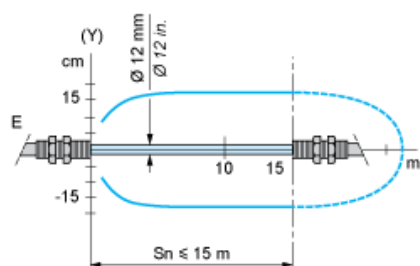
Beam broken



BN : Brown
VI : Violet (beam break input)
BU : Blue

Detection Curves

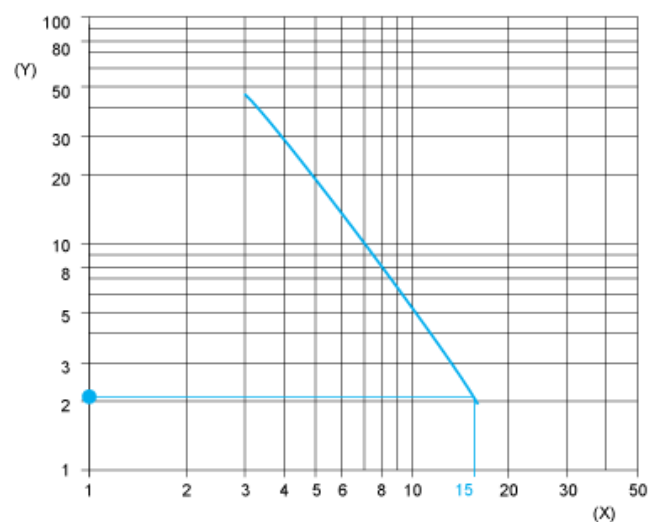
Thru-beam System



(y) $\varnothing$ of beam

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

Thru-beam System



(y) Gain
(x) Distance (m)