

XU5N18NP341L5

photo-electric sensor - XU5 - diffuse - Sn
0.10m - 12..24VDC - cable 5m



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	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 diffuse
[Sn] nominal sensing distance	0.1 m diffuse

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
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	<= 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	62 mm

Environment

Product certifications	CSA CE UL
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

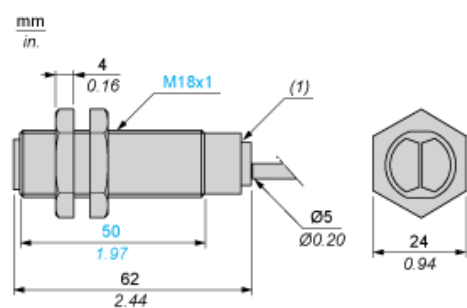
Packing Units

Package 1 Weight	0.280 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



(1) LED

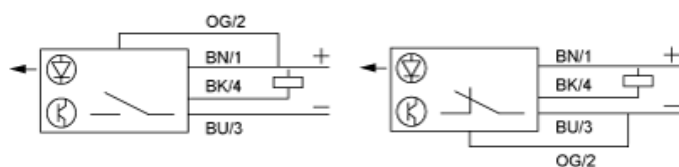
Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

Wiring Schemes

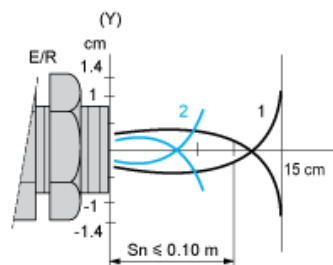
3-wire, NPN NO or NC Programmable Function



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

Detection Curves

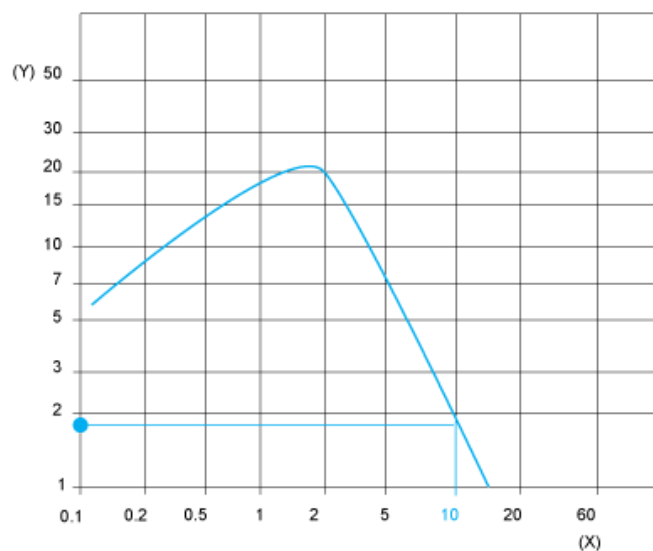
Diffuse System



(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 cm
White 90%