# Product data sheet
## Characteristics

# XU2N18NP341

photo-electric sensor - XU2 - thru beam - Sn 15m - 12..24VDC - cable 2m
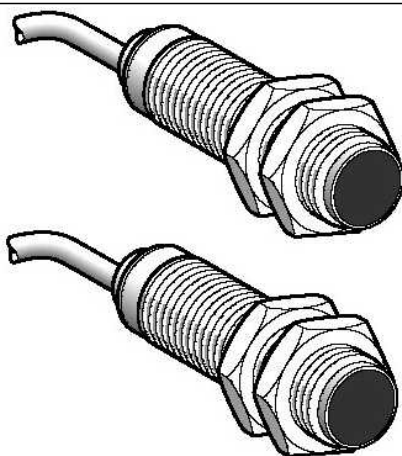
### Main

| | |
|---|---|
| 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 | 2 m |
| Product specific application | - |
| Emission | Infrared thru beam |
| [Sn] nominal sensing distance | 15 m thru beam |

## Buy online

### 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 mm² |
| Wire insulation material | PvR |
| Cable outer diameter | 4.2 mm |
| Status LED | 1 LED (green) for supply on<br>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 |
| Voltage drop | <= 1.5 V (closed state) |
| Current consumption | <= 50 mA (no-load) |
| Delay first up | <= 15 ms |
| Delay response | <= 1 ms |
| Delay recovery | <= 1 ms |
| Setting-up | Without sensitivity adjustment |
| Diameter | 18 mm |
| Length | 62 mm |
| Product weight | 0.27 kg |
| Kit composition | Transmitter + receiver |

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## Environment

| | |
|---|---|
| Product certifications | CE<br>CSA<br>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 |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Will be compliant on 3Q2013 |
| Product environmental profile | Available Product Environmental |
| Product end of life instructions | Available End Of Life Manual |

## Contractual warranty

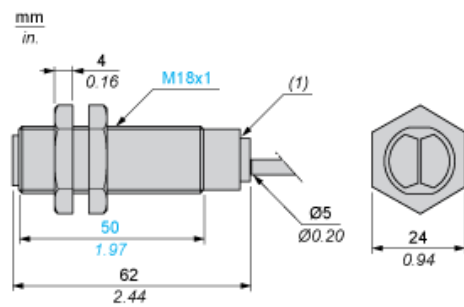| | |
|---|---|
| Warranty period | 18 months |

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## Dimensions

Transmitter's Dimensions
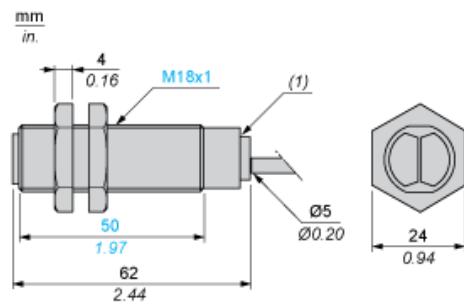


(1)    LED

Receiver's Dimensions



(1)    LED

## Mounting and Clearance

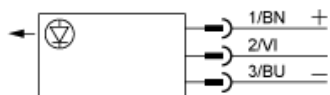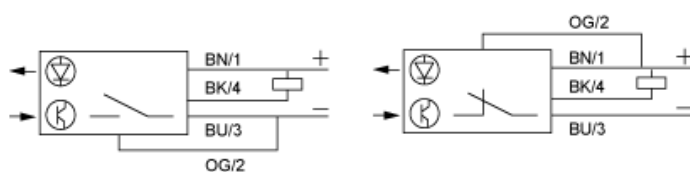Fixing nut tightening torque: < 15 N.m
Connector tightening torque: 2 N.m

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## Wiring Schemes

### Transmitter

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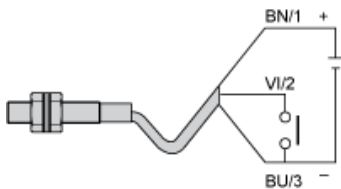BU : Blue

### 3-wire, NPN NO or NC Programmable Function

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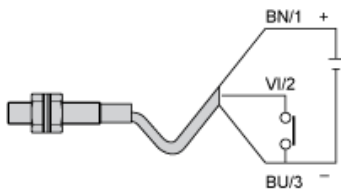
## Wiring Schemes

### Beam Break Input on Thru-beam Transmitter

Beam made

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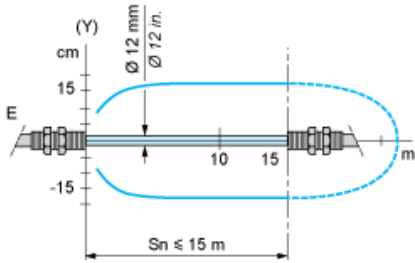VI : Violet (beam break input)
BU : Blue

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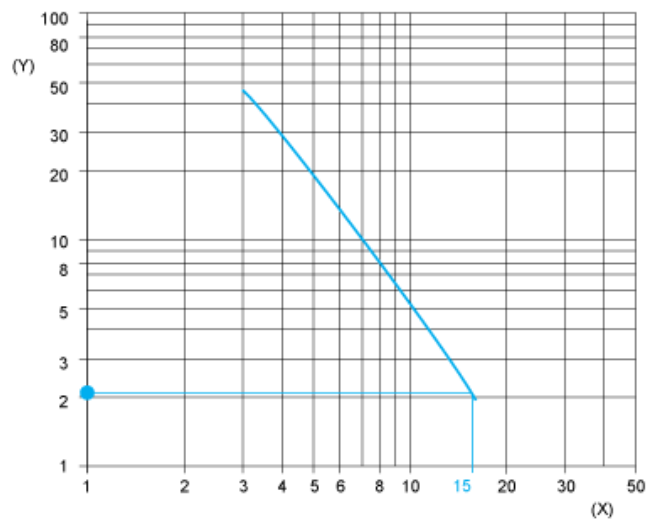
BN : Brown
VI : Violet (beam break input)
BU : Blue

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## Detection Curves

### Thru-beam System



(y)   Ø of beam

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

### Thru-beam System



(y)   Gain
(x)   Distance (m)