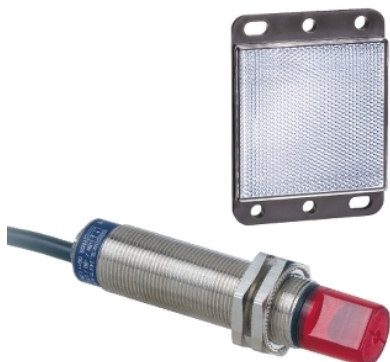


# XU9N18PP341W

photo-electric sensor - XU9 - polarised - 90° -  
Sn 2m - 12..24VDC - cable 2m



## Main

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Range of product              | OsiSense XU                                |
| Series name                   | Application food and beverage              |
| Electronic sensor type        | Photo-electric sensor                      |
| Sensor name                   | XU9                                        |
| Sensor design                 | Cylindrical M18                            |
| Detection system              | Polarised reflex                           |
| 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          | PNP                                        |
| Discrete output function      | 1 NO or 1 NC programmable                  |
| Electrical connection         | Cable                                      |
| Cable length                  | 2 m                                        |
| Product specific application  | -                                          |
| Emission                      | Red polarised reflex                       |
| [Sn] nominal sensing distance | 2 m polarised reflex need reflector XUZC50 |

## Complementary

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Enclosure material        | Stainless steel : 304 CU                                       |
| Lens material             | PMMA                                                           |
| Maximum sensing distance  | 3 m                                                            |
| Output type               | Solid state                                                    |
| Add on output             | Without                                                        |
| Add on input              | Programmation                                                  |
| Cable composition         | 4 x 0.34 mm <sup>2</sup>                                       |
| 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                                                      |
| 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                | 0.085 kg                                                       |
| Kit composition           | Reflector XUZC50<br>Sensor                                     |

## Environment

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

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 165 g   |
| Package 1 Height             | 4.5 cm  |
| Package 1 width              | 8 cm    |
| Package 1 Length             | 13.3 cm |

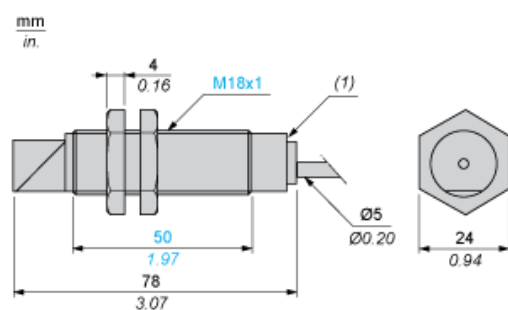
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                            |
| RoHS exemption information | <a href="#">Yes</a>                                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                  |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                        |

## Contractual warranty

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

## Dimensions



(1) LED

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Mounting and Clearance

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Fixing nut tightening torque: < 15 N.m

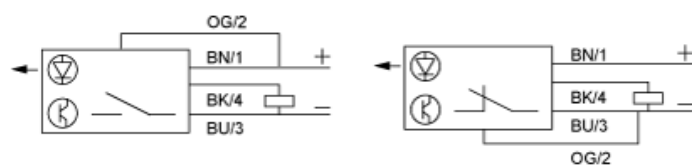
Connector tightening torque: 2 N.m

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## Wiring Schemes

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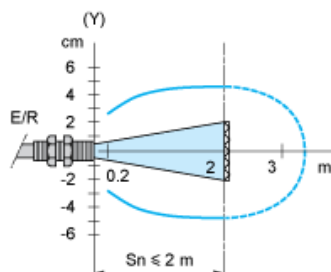
### 3-wire, PNP NO or NC Programmable Function



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

## Detection Curves

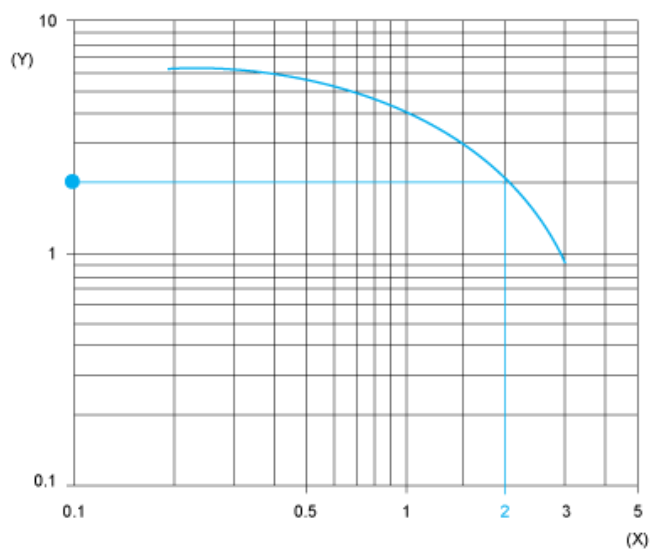
### Polarised Reflex System with Reflector XUZC50



(y) Ø of beam

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

#### Polarised Reflex System with Reflector XUZC50



(y) Gain

(x) Distance (m)