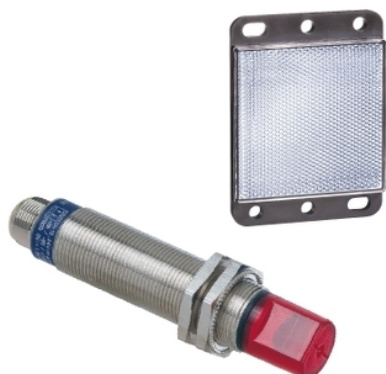


# XU1N18PP341WD

Photoelectric sensors XU, photo electric sensor, XU1, reflex, 90°, Sn 4 m, 12...24 VDC, M12



## Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Range of product              | Telemecanique Photoelectric sensors XU |
| Series name                   | Application food and beverage          |
| Electronic sensor type        | Photo-electric sensor                  |
| Sensor name                   | XU1                                    |
| Sensor design                 | Cylindrical M18                        |
| Detection system              | 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         | 1 male connector M12, 4 pins           |
| Product specific application  | -                                      |
| Emission                      | Infrared reflex                        |
| [Sn] nominal sensing distance | 4 m reflex need reflector XUZC50       |

## Complementary

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Enclosure material        | Stainless steel : 304 CU                                       |
| Lens material             | PMMA                                                           |
| Maximum sensing distance  | 5.5 m with reflector 50 x 50 mm                                |
| Output type               | Solid state                                                    |
| Add on output             | Without                                                        |
| Add on input              | Programmation                                                  |
| 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                                     |

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## Environment

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

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Weight             | 89 g   |
| Package 1 Height             | 4.5 cm |
| Package 1 width              | 8.2 cm |
| Package 1 Length             | 7.2 cm |

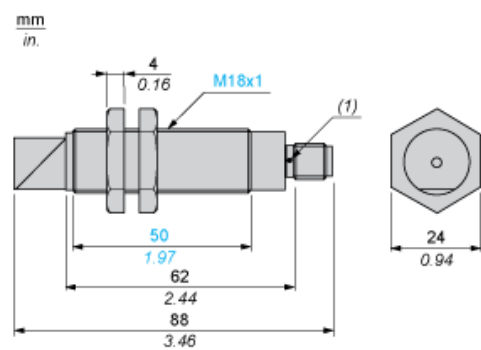
## Offer Sustainability

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation         |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive        | Not applicable, out of EU RoHS legal scope                                                                                      |
| Environmental Disclosure |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile      |  <a href="#">End Of Life Information</a>       |

## Contractual warranty

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

## Dimensions



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Mounting and Clearance

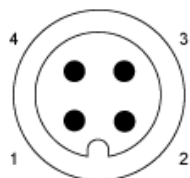
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Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

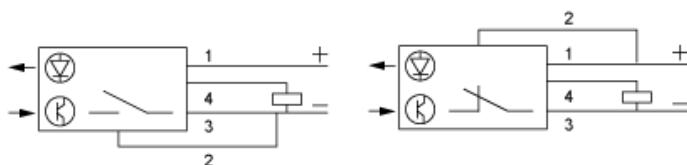
## Wiring Schemes

### M12 Connector



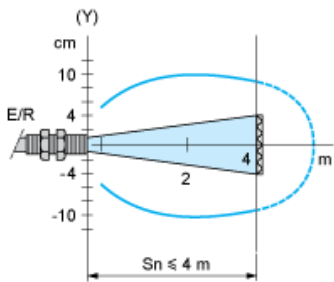
- 3 : (-)
- 1 : (+)
- 4 : OUT/Output
- 2 : Prog

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



Detection Curves

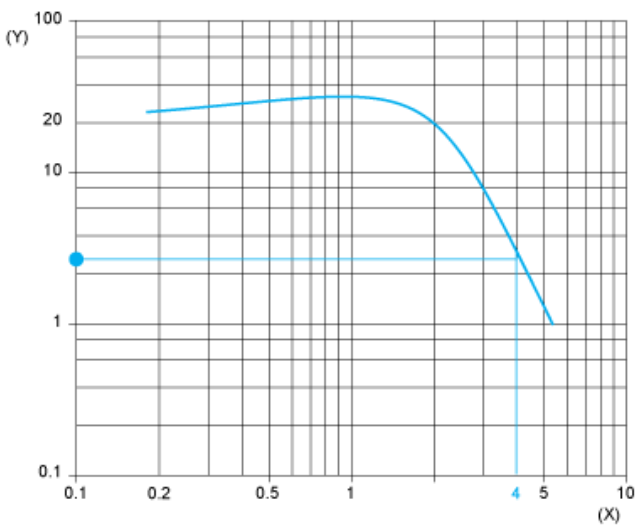
Reflex System with Reflector XUZC50



(y) Ø of beam

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

Reflex System with Reflector XUZC50



(y) Gain  
(x) Distance (m)