

# XU5M18AB20D

Photoelectric sensors XU, XU5, diffuse, analog,  
Sn 0.4 m, 12...24VDCM12



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Photoelectric sensors XU |
| Series name                   | Application material handling          |
| Electronic sensor type        | Photo-electric sensor                  |
| Sensor name                   | XU5                                    |
| Sensor design                 | Cylindrical M18                        |
| Detection system              | Diffuse                                |
| Material                      | Metal                                  |
| Line of sight type            | Axial                                  |
| Type of output signal         | Analogue                               |
| Supply circuit type           | DC                                     |
| Wiring technique              | 3-wire                                 |
| Discrete output type          | PNP                                    |
| Analogue output range         | 4...20 mA                              |
| Electrical connection         | 1 male connector M12, 4 pins           |
| Product specific application  | -                                      |
| Emission                      | Infrared diffuse                       |
| [Sn] nominal sensing distance | 0.05...0.4 m diffuse                   |

## Complementary

|                           |   |
|---------------------------|---|
| Enclosure material        | Nickel plated brass                           |
| Lens material             | PMMA  |
| Maximum sensing distance  | 0.4 m   |
| Add on output             | With analogue output                          |
| Status LED                | 1 LED (green) 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  | 4...20 mA                                     |
| Switching frequency       | <= 20 Hz                                      |
| Current consumption       | <= 30 mA no-load                              |
| Maximum delay first up    | 50 ms   |
| Setting-up                | Sensitivity adjustment with potentiometer     |
| Diameter                  | 18 mm   |
| Length                    | 95 mm   |
| Net weight                | 0.075 kg                                      |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product certifications                | CE[RETURN]UL[RETURN]CSA  |
| Ambient air temperature for operation | -25...55 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Vibration resistance                  | 25 gn, amplitude = +/- 2 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 Height             | 6.4 cm   |
| Package 1 Width              | 9.2 cm   |
| Package 1 Length             | 4.2 cm   |
| Package 1 Weight             | 88.0 g   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 2.154 kg |

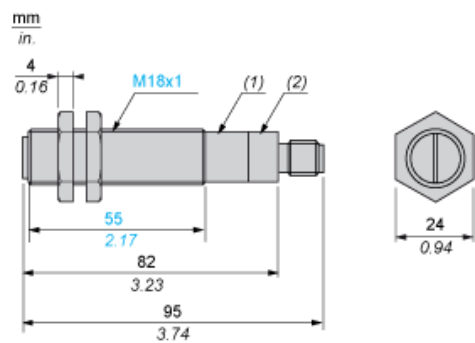
## Offer Sustainability

|  |  |
|--|--|
| Sustainable offer status                   | Green Premium product  |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>   |

## Contractual warranty

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

## Dimensions

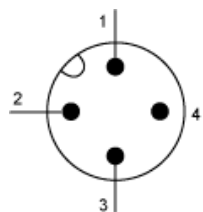


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## Connections and Schemes

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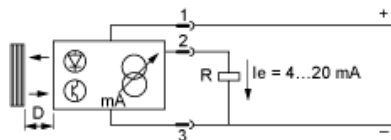
### Connector Scheme



- 1 : (+)
- 2 : Analogue output
- 3 : (-)

### Wiring Schemes

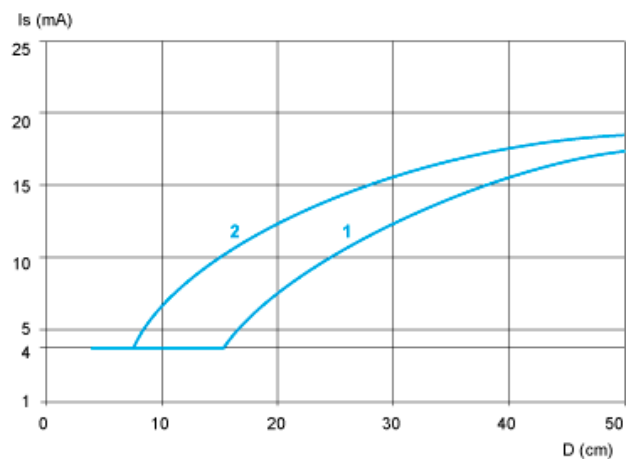
Output Current



## Curves

### Output Signal (Related to Distance of Object)

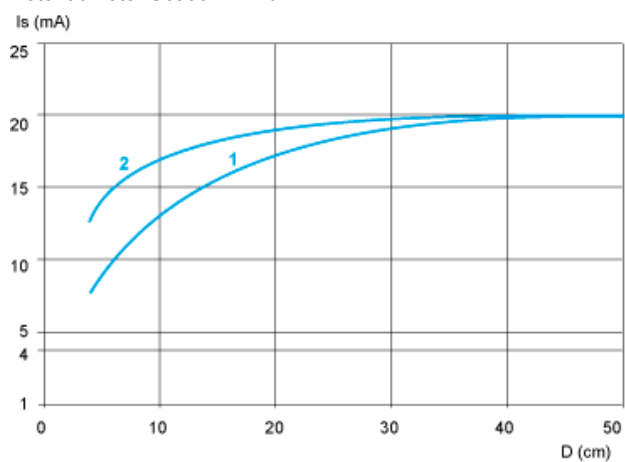
Potentiometer Set at Maximum



1 : White 90% object

2 : Grey 15% object

Potentiometer Set at Minimum



1 : White 90% object

2 : Grey 15% object