

# Product data sheet

## Characteristics

# XS7E1A1DBL01M12

inductive sensor XS7 26x26x13 - PBT -  
Sn10mm - 12..24VDC - M12 0.15m



### Main

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS               |
| Series name                        | General purpose                                            |
| Sensor type                        | Inductive proximity sensor                                 |
| Device application                 | -                                                          |
| Sensor name                        | XS7                                                        |
| Sensor design                      | Flat form 26 x 26 x 13                                     |
| Size                               | 13 mm                                                      |
| Body type                          | Fixed                                                      |
| Detector flush mounting acceptance | Flush mountable                                            |
| Material                           | Plastic                                                    |
| Enclosure material                 | PBT                                                        |
| Type of output signal              | Discrete                                                   |
| Wiring technique                   | 2-wire                                                     |
| Discrete output function           | 1 NC                                                       |
| Output circuit type                | DC                                                         |
| Electrical connection              | Remote male connector M12, 4 pins                          |
| Cable length                       | 0.15 m                                                     |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection              |
| Switching capacity in mA           | 1.5...100 mA DC with overload and short-circuit protection |
| IP degree of protection            | IP67 double insulation conforming to IEC 60529             |

### Complementary

|                          |                              |
|--------------------------|------------------------------|
| Detection face           | Frontal                      |
| Front material           | PBT                          |
| Operating zone           | 0...8 mm                     |
| Differential travel      | 1...15% of Sr                |
| Wire insulation material | PVC                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                 |
| Maximum residual current | 0.5 mA open state            |
| Switching frequency      | <= 1000 Hz                   |
| Maximum voltage drop     | <4 V (closed)                |
| Maximum delay first up   | 5 ms                         |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.7 ms                       |
| Marking                  | CE                           |
| Depth                    | 13 mm                        |
| Height                   | 26 mm                        |
| Width                    | 26 mm                        |
| Net weight               | 0.04 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | Ecolab[RETURN]UL[RETURN]CSA[RETURN]C-Tick                               |
| Ambient air temperature for operation | -25...70 °C                                                             |
| Ambient air temperature for storage   | -40...85 °C                                                             |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                            |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.2 cm   |
| Package 1 Width              | 9.5 cm   |
| Package 1 Length             | 6.6 cm   |
| Package 1 Weight             | 53.0 g   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 22       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 1.642 kg |

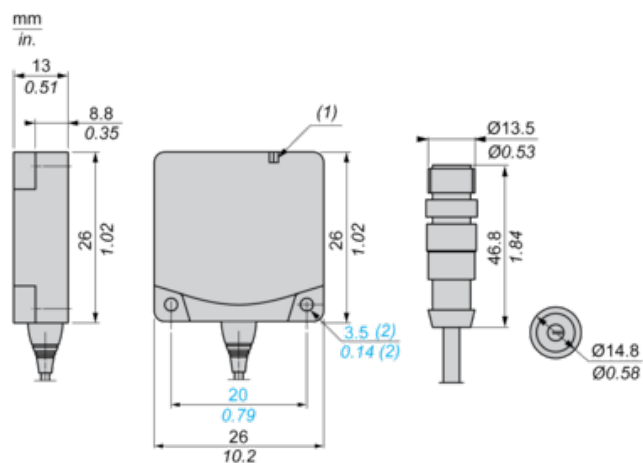
## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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)                                                            |
| Mercury free               | Yes                                                                                                                   |
| RoHS exemption information |  <a href="#">Yes</a>               |
| Circularity Profile        | No need of specific recycling operations                                                                              |

## Contractual warranty

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

## Dimensions



(1) LED

(2) For CHC type screws

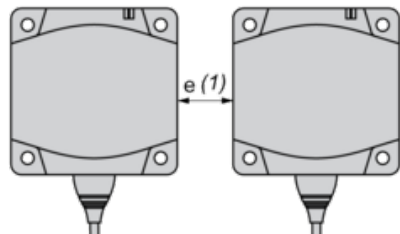
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## Setting-up

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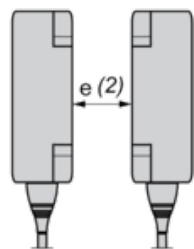
### Minimum Mounting Distances (mm)

Side by Side



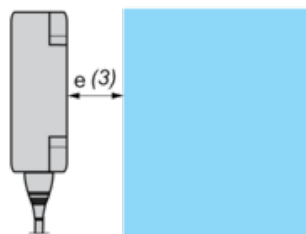
$$e (1) \geq 30$$

Face to Face



$$e (2) \geq 72$$

Facing a Metal Object



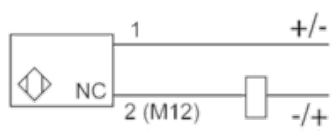
$$e (3) \geq 30$$

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## Wiring Schemes

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### 2-Wire NC



M12

