# Product datasheet

Specifications



## inductive sensor XS7 8x22x8 - PBT - Sn2.5mm - 12..24VDC - M8 0.15m

**Local distributor code: 388783502** XS7J1A1PAL01M8

## 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 8 x 22 x 8 |
| **Size** | 8 mm |
| **Body type** | Fixed |
| **Detector flush mounting acceptance** | Flush mountable |
| **Material** | Plastic |
| **Enclosure material** | PBT |
| **Type of output signal** | Discrete |
| **Wiring technique** | 3-wire |
| **Discrete output function** | 1 NO |
| **Output circuit type** | DC |
| **Discrete output type** | PNP |
| **Electrical connection** | 3 pins M8 remote male connector |
| **Cable length** | 0.15 m |
| **[Us] rated supply voltage** | 12...24 V DC with reverse polarity protection |
| **Switching capacity in mA** | <= 100 mA DC with overload and short-circuit protection |
| **IP degree of protection** | IP67 conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| **Detection face** | Frontal |
| **Front material** | PBT |
| **Operating zone** | 0…2 mm |
| **Differential travel** | 1...15% of Sr |
| **Wire insulation material** | PvR |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Status LED** | Output state: 1 LED (yellow) |
| **Supply voltage limits** | 10…36 V DC |
| **Switching frequency** | <= 2000 Hz |
| **Maximum voltage drop** | <2 V (closed) |
| **Current consumption** | <= 10 mA no-load |
| **Maximum delay first up** | 5 ms |
| **Maximum delay response** | 0.1 ms |
| **Maximum delay recovery** | 0.1 ms |
| **Marking** | CE |
| **Depth** | 8 mm |
| **Height** | 22 mm |
| **Width** | 8 mm |
| **Net weight** | 0.04 kg |

## Environment

| | |
|---|---|
| **Product certifications** | 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 Weight** | 25.0 g |
| **Package 1 Height** | 4.2 cm |
| **Package 1 width** | 9.5 cm |
| **Package 1 Length** | 6.6 cm |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 22 |
| **Package 2 Weight** | 924.0 g |
| **Package 2 Height** | 15 cm |
| **Package 2 width** | 30 cm |
| **Package 2 Length** | 40 cm |

## Offer Sustainability

| | |
|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **EU RoHS Directive** | Pro-active compliance (Product out of EU RoHS legal scope)<br>EU RoHS Declaration |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |

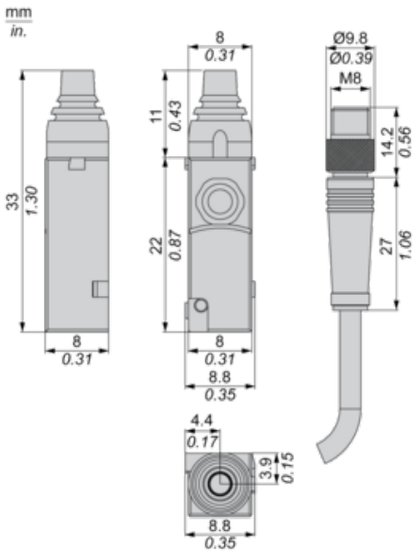
## Contractual warranty

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

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Dimensions Drawings

## Dimensions



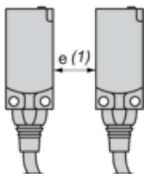
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Mounting and Clearance

## Setting-up

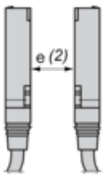
### Minimum Mounting Distances (mm)

**Side by Side**



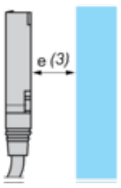

**e (1) ≥** 7.5

**Face to Face**




**e (2) ≥** 20

**Facing a Metal Object**



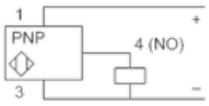

**e (3) ≥** 7.5

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Connections and Schema

## Wiring Schemes

**PNP**




**M8**

