# Product data sheet

Specifications

**Green Premium™**

## Inductive proximity sensors XS, inductive sensor XS8 80x80x26, PBT, Sn60mm, 12...24 VDC, cable 10 m

XS8D1A1PBL10

## Main

| | |
|---|---|
| Range of product | Telemecanique Inductive proximity sensors XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS8 |
| Sensor design | Flat form 80 x 80 x 26 |
| Size | 26 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Non flush mountable |
| Material | Plastic |
| Enclosure material | PBT |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 40 mm flush mountable<br>60 mm non flush mountable |
| Discrete output function | 1 NC |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | Cable |
| Cable length | 10 m |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Switching capacity in mA | <= 200 mA DC with overload and short-circuit protection |
| IP degree of protection | IP68 double insulation conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| Detection face | Frontal |
| Front material | PBT |
| Fine adjustment zone | 20…40 mm flush mountable<br>20…60 mm non flush mountable |
| Differential travel | 1...15% of Sr |

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| | |
|---|---|
| **Cable composition** | 3 x 0.34 mm² |
| **Wire insulation material** | PvR |
| **Supply voltage limits** | 10…36 V DC |
| **Maximum residual current** | 1.5 mA open state |
| **Switching frequency** | <= 150 Hz |
| **Maximum voltage drop** | <2 V (closed) |
| **Current consumption** | <= 10 mA no-load |
| **Maximum delay first up** | 10 ms |
| **Maximum delay response** | 0.3 ms |
| **Maximum delay recovery** | 6 ms |
| **Marking** | CE |
| **Depth** | 26 mm |
| **Height** | 80 mm |
| **Width** | 80 mm |
| **Net weight** | 0.71 kg |

## Environment

| | |
|---|---|
| **Product certifications** | CSA<br>UL |
| **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** | Db |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 14.8 cm |
| **Package 1 Width** | 9.2 cm |
| **Package 1 Length** | 9.4 cm |
| **Package 1 Weight** | 646.0 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 7 |
| **Package 2 Height** | 15.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 4.845 kg |

## 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 |

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| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |
| **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 Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

## Contractual warranty

| **Warranty** | 18 months |

## Dimensions
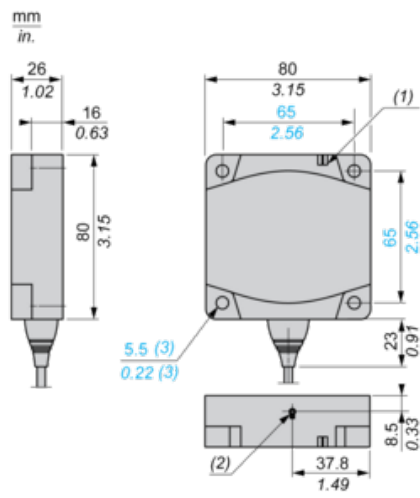


**(1)** LED

**(2)** Teach mode button

**(3)** For CHC type screws

**Setting-up**

## Minimum Mounting Distances (mm)

**Side by Side**
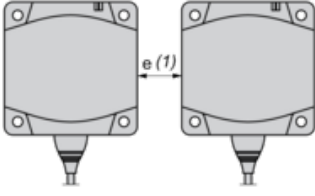


**Face to Face**
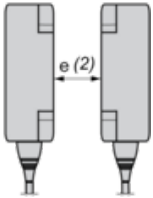


**Facing a Metal Object**
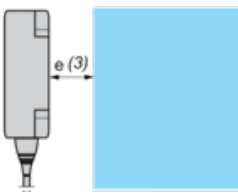


|  | e (1) | e (2) | e (3) |
|---|---|---|---|
| Flush mounted | 200 | 400 | 40 |
| Not flush mounted | 600 | not recommended | |

## Wiring Schemes

**PNP**
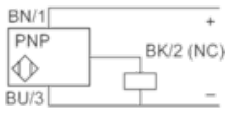
**BU** : Blue

**BN** : Brown

**BK** : Black

## Recommended replacement(s)