

## XS8D1A1PBM12

inductive sensor XS8 80x80x26 - PBT - Sn60mm - 12..24VDC - M12



### Main

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Range of product                   | OsiSense 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              | 4 pins M12 male connector                               |
| [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            | IP67 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                                                |
| Supply voltage limits | 10...36 V DC                                                 |
| Residual current      | <= 1.5 mA for open state                                     |
| Switching frequency   | <= 150 Hz                                                    |
| Voltage drop          | <= 2 V at closed state                                       |
| Current consumption   | <= 10 mA at no-load                                          |
| Delay first up        | <= 10 ms                                                     |
| Delay response        | <= 0.3 ms                                                    |
| Delay recovery        | <= 6 ms                                                      |
| Marking               | CE                                                           |
| Depth                 | 26 mm                                                        |
| Height                | 80 mm                                                        |
| Width                 | 80 mm                                                        |
| Product weight        | 0.34 kg                                                      |

### Environment

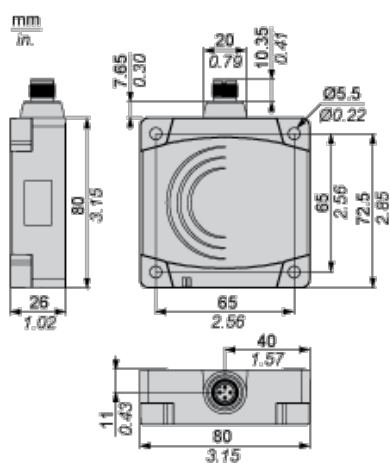
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|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| product certifications                | CSA<br>UL<br>Ecolab                                                     |
| 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                            |

## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0825 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Need no specific recycling operations                                 |

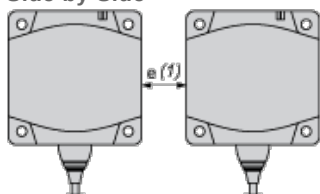
## Dimensions



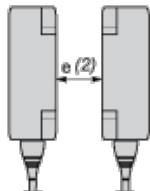
## Setting-up

### Minimum Mounting Distances (mm)

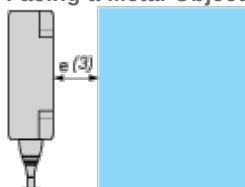
#### Side by Side



#### 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

