

# XS8C2A1MAU20

Inductive proximity sensors XS, inductive sensor XS8 40x40x70, PBT, Sn20 mm, 24...240VAC/DC, 1/2"



## 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                      | Form 40 x 40 x 70                                                                             |
| Size                               | 70 mm                                                                                         |
| Body type                          | Fixed                                                                                         |
| Detector flush mounting acceptance | Flush mountable                                                                               |
| Material                           | Plastic                                                                                       |
| Enclosure material                 | PBT                                                                                           |
| Type of output signal              | Discrete                                                                                      |
| Wiring technique                   | 2-wire                                                                                        |
| [Sn] nominal sensing distance      | 20 mm                                                                                         |
| Discrete output function           | 1 NO                                                                                          |
| Output circuit type                | AC/DC                                                                                         |
| Electrical connection              | Male connector 1/2"20 UNF, 3 pins                                                             |
| [Us] rated supply voltage          | 24...240 V AC 50/60 Hz<br>24...240 V DC                                                       |
| Switching capacity in mA           | 5...200 mA DC<br>5...300 mA AC                                                                |
| IP degree of protection            | IP67 conforming to IEC 60529<br>IP65 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Detection face           | 5 positions turret head                                  |
| Front material           | PBT                                                      |
| Operating zone           | 0...16 mm                                                |
| Differential travel      | 3...15% of Sr                                            |
| Repeat accuracy          | <= 3% of Sr                                              |
| Status LED               | Supply on: 1 LED (green)<br>Output state: 1 LED (yellow) |
| Supply voltage limits    | 20...264 V AC/DC                                         |
| Maximum residual current | 1.5 MA open state 120 V<br>0.6 mA open state 24 V        |
| Switching frequency      | <= 25 Hz AC<br><= 50 Hz DC                               |
| Maximum voltage drop     | <5.5 V (closed)                                          |
| Maximum delay first up   | 7.5 ms                                                   |
| Maximum delay response   | 1.2 ms                                                   |
| Maximum delay recovery   | 1.8 ms                                                   |
| Marking                  | CE                                                       |
| Height                   | 40 mm                                                    |
| Length                   | 40 mm                                                    |
| Width                    | 70 mm                                                    |
| Net weight               | 0.149 kg                                                 |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA[RETURN]CCC[RETURN]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       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.5 cm   |
| Package 1 Width              | 4.2 cm   |
| Package 1 Length             | 8.8 cm   |
| Package 1 Weight             | 142 g    |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 42       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 6.419 kg |

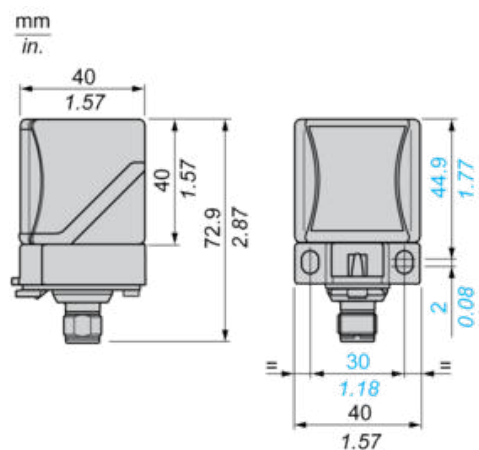
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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 <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

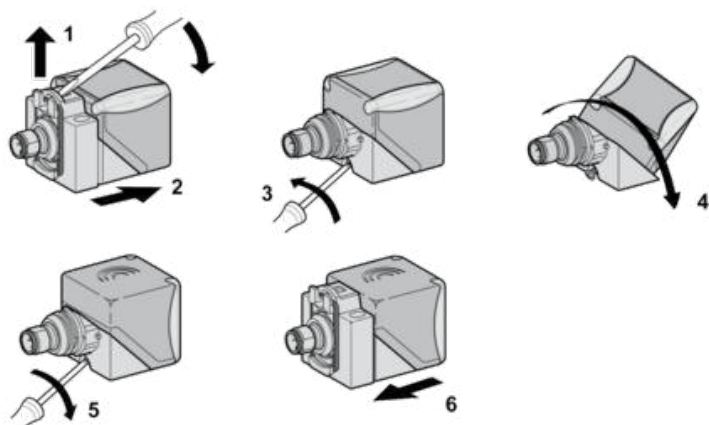
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



## Mounting

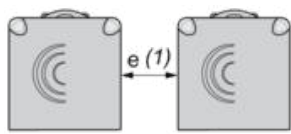
### Head Positions



### Setting-up Precautions

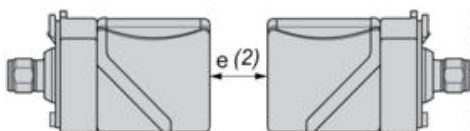
#### Minimum Mounting Distances (mm)

Side by Side



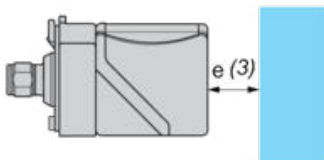
$$e (1) \geq 80$$

Face to Face



$$e (2) \geq 160$$

Facing a Metal Object



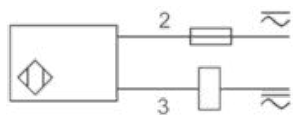
$$e (3) \geq 60$$

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## Wiring Schemes

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### 2-Wire NO Output



1/2"-20UNF

