

# XS9E111A2L2

Inductive proximity sensors XS, inductive sensor XS9 26x26x13, PBT, Sn10mm, 24 VDC, cable 2 m



## Main

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS   |
| Series name                        | Application                                    |
| Sensor type                        | Inductive proximity sensor                     |
| Device application                 | -                                              |
| Sensor name                        | XS9                                            |
| 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              | Analogue                                       |
| Wiring technique                   | 2-wire                                         |
| [Sn] nominal sensing distance      | 10 mm                                          |
| Output circuit type                | DC                                             |
| Analogue output range              | 4...20 mA                                      |
| Electrical connection              | Cable                                          |
| Cable length                       | 2 m                                            |
| [Us] rated supply voltage          | 24 V DC                                        |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529 |

## Complementary

|                              |                          |
|------------------------------|--------------------------|
| Detection face               | Frontal                  |
| Front material               | PBT                      |
| Operating zone               | 1...10 mm                |
| Repeat accuracy              | <= 3% of Sr              |
| Linearity error              | +/- 2 mA                 |
| Cable composition            | 3 x 0.34 mm <sup>2</sup> |
| Wire insulation material     | PVC                      |
| Status LED                   | Without                  |
| Supply voltage limits        | 15...36 V DC             |
| Switching frequency          | <= 1000 Hz               |
| Current consumption          | 0...4 mA no-load         |
| Maximum output current drift | 10 %                     |
| Marking                      | CE                       |
| Depth                        | 13 mm                    |
| Height                       | 26 mm                    |
| Width                        | 26 mm                    |

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## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA[RETURN]Ecolab[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             | 13.2 cm  |
| Package 1 Width              | 4.2 cm   |
| Package 1 Length             | 9.6 cm   |
| Package 1 Weight             | 93.0 g   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 11       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 1.248 kg |

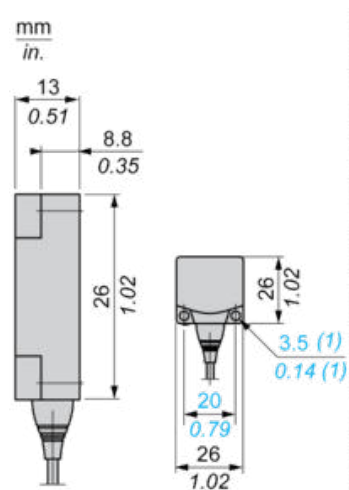
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



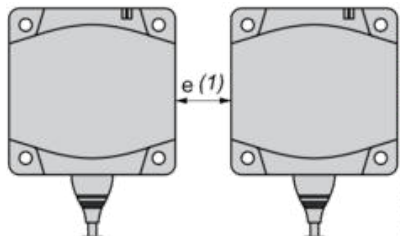
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## Setting-up

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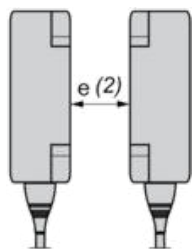
### Minimum Mounting Distances (mm)

Side by Side



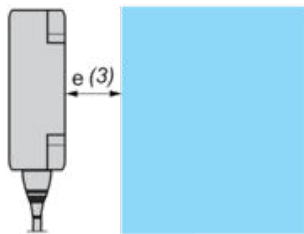
$$e (1) \geq 30$$

Face to Face



$$e (2) \geq 72$$

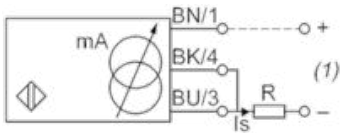
Facing a Metal Object



$$e (3) \geq 30$$

Wiring Schemes

2-Wire Connection



BU : Blue

BN : Brown

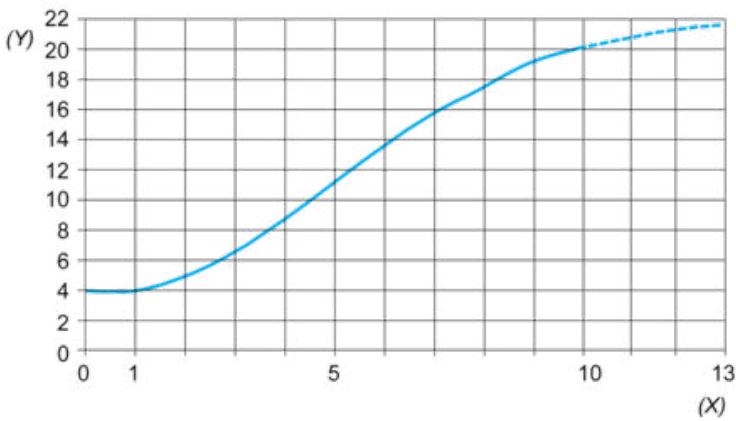
BK : Black

(1) Output current

Ensure a minimum of 10 V between the + (terminal 1) and - (terminal 3) of the sensor

|      | Output current | Load impedance value   |
|------|----------------|------------------------|
| 12 V | 4...20 mA      | $R \leq 8.2 \, \Omega$ |
| 24 V | 4...20 mA      | $R \leq 470 \, \Omega$ |

Output Curves



(Y) Is (mA)  
(X) Sensors - object distance (mm)