

# Product data sheet

# XS9C4A2A1G13

Inductive sensor, XS9, 40x40x117 mm, PBT, Sn 25 mm, terminals, 12...24 VDC

## Main

| | |
|---|---|
| Range of product | Telemecanique Inductive proximity sensors XS |
| Series name | General purpose |
| Sensor name | XS9 |
| Sensor type | Inductive proximity sensor |
| Sensor design | Form 40 x 40 x 117 |
| Device application | Not applicable |
| ETIM classification | ETIM 9 - EC002714 - Inductive proximity switch |
| Body type | Fixed |
| Material | Plastic |
| Front material | PBT |
| Enclosure material | PBT |
| [Sn] nominal sensing distance | 25 mm |
| Wiring technique | 3-wire |
| Detector flush mounting acceptance | Non flush mountable |
| Delay response | 6 ms |
| Product certifications | CSA<br>UL |
| Marking | CE |
| Indivisible sale quantity | 1 |

## Complementary

| | |
|---|---|
| Sensing range | > 15...40 mm |
| Cable entry number | 1 tapped entry for Pg 13.5 cable gland |
| Electrical connection | Screw-clamp terminals, 4 x 1.5 mm² |
| Supply voltage limits | 15-36 V DC |
| [Us] rated supply voltage | 24 V DC with reverse polarity protection |
| Current consumption | 0...4 mA no-load |
| Status LED | Output state: 1 LED (yellow) |
| Output circuit type | DC |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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| | |
|---|---|
| Type of output signal | Analogue |
| Output current drift | 5 % |
| Detection face | 5 positions turret head |
| Analogue output range | 0...10 V |
| Linearity error | <= 3% of Sr |
| Delay first up | 7.5 ms |
| Delay recovery | 6 ms |
| Height | 40 mm |
| Width | 117 mm |
| Length | 40 mm |
| Size | 117 mm |
| Product weight | 0.244 kg |

## Environment

| | |
|---|---|
| IP degree of protection | IP67 conforming to IEC 60529, IP65 conforming to IEC 60529, IP69K conforming to DIN 40050 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Shock resistance | 50 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 25 gn amplitude = +/- 2 mm (f = 10-55 Hz) conforming to IEC 60068-2-6 |

## 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 www.P65Warnings.ca.gov |

## Warranty

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

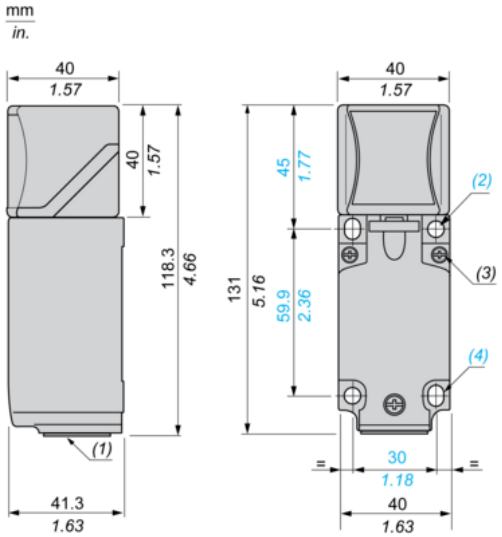
## Packing Units

| | |
|---|---|
| Country of origin | FR (France) |
| Unit type of package 1 | PCE |
| Number of units in package 1 | 1 |
| New Package 1 GTIN-13 | 3666916010129 |
| Package 1 height | 5 cm |
| Package 1 width | 5 cm |
| Package 1 length | 14.5 cm |
| Package 1 weight | 0.252 kg |
| Unit type of package 2 | S02 |
| Number of units in package 2 | 14 |

| | |
|---|---|
| New Package 2 GTIN 14 | 13666916010126 |
| Package 2 height | 15 cm |
| Package 2 width | 30 cm |
| Package 2 length | 40 cm |
| Package 2 weight | 3.818 kg |
| Unit type of package 3 | CAR |
| Number of units in package 3 | 1 |
| New Package 3 GTIN 14 | 23666916010123 |
| Package 3 height | 5 cm |
| Package 3 width | 5 cm |
| Package 3 length | 14.5 cm |
| Package 3 weight | 0.252 kg |

## Technical Drawings

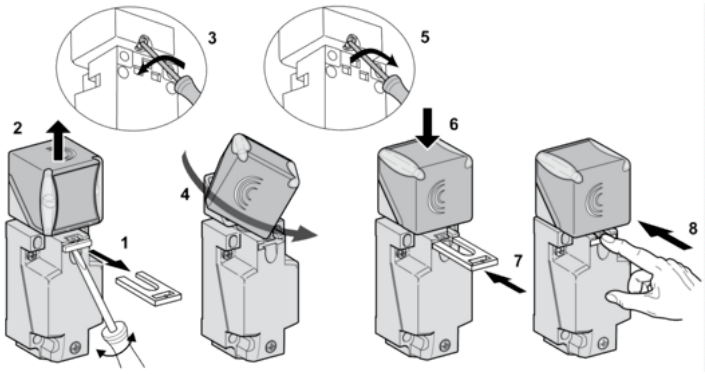
### Dimensions




(1) :
(2) :
(3) :
(4) :

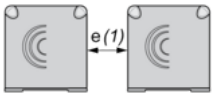
## Mounting

### Head Positions

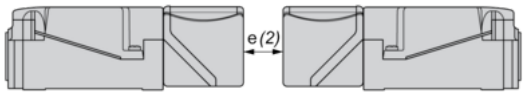



## Setting-up Precautions

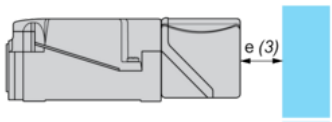
### Minimum Mounting Distances (mm)




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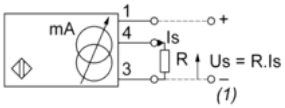

### Minimum Mounting Distances (mm)




Side by Side
e (1) ≥
Face to Face
e (2) ≥
Facing a Metal Object
e (3) ≥

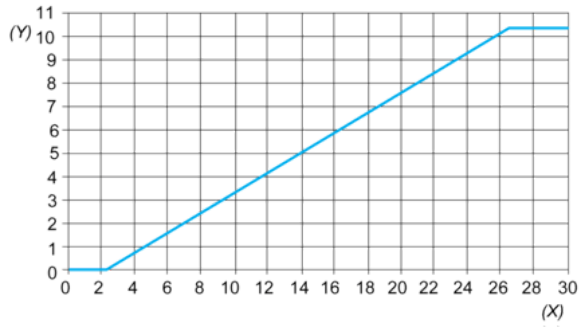
## Wiring Schemes

### 3-Wire




(1)
Ensure a minimum of 5 V between the + and the sensor output (terminal 4)

Analogue Outputs




(Y)
(X)