

# Product data sheet

Specifications



Inductive proximity sensors XS,  
inductive sensor XS9 40x40x15,  
PBT, Sn15mm, 24 VDC, cable 2 m

XS9C111A1L2

## 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 40 x 40 x 15
Size	15 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Analogue
Wiring technique	3-wire
[Sn] nominal sensing distance	15 mm
Output circuit type	DC
Analogue output range	0...10 V
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	2...15 mm
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 1 V
Cable composition	3 x 0.34 mm <sup>2</sup>

<b>Wire insulation material</b>	PVC
<b>Status LED</b>	Without
<b>Supply voltage limits</b>	15...36 V DC
<b>Switching frequency</b>	<= 1000 Hz
<b>Current consumption</b>	0...4 mA no-load
<b>Maximum output current drift</b>	10 %
<b>Marking</b>	CE
<b>Depth</b>	15 mm
<b>Height</b>	40 mm
<b>Width</b>	40 mm

## Environment

<b>Product certifications</b>	UL CSA Ecolab
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Vibration resistance</b>	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	50 gn for 11 ms conforming to IEC 60068-2-27

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.2 cm
<b>Package 1 Width</b>	9.6 cm
<b>Package 1 Length</b>	13.2 cm
<b>Package 1 Weight</b>	126.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	22
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	3.062 kg

## Offer Sustainability

<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isooctyl 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="#">www.P65Warnings.ca.gov</a>

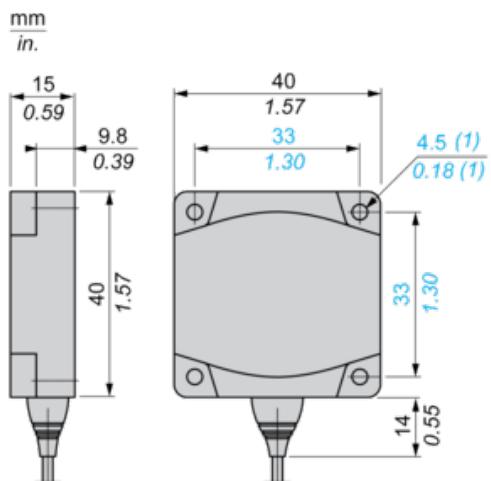
## Contractual warranty

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Warranty

18 months

### Dimensions



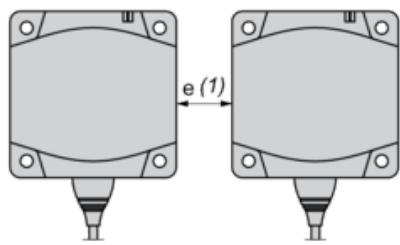
(1) For CHC type screws

### Setting-up

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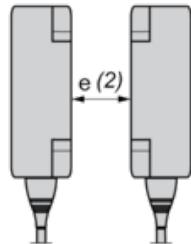
#### Minimum Mounting Distances (mm)

##### Side by Side



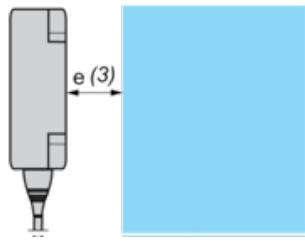
$e (1) \geq 45$

##### Face to Face

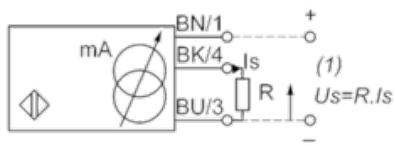


$e (2) \geq 110$

##### Facing a Metal Object

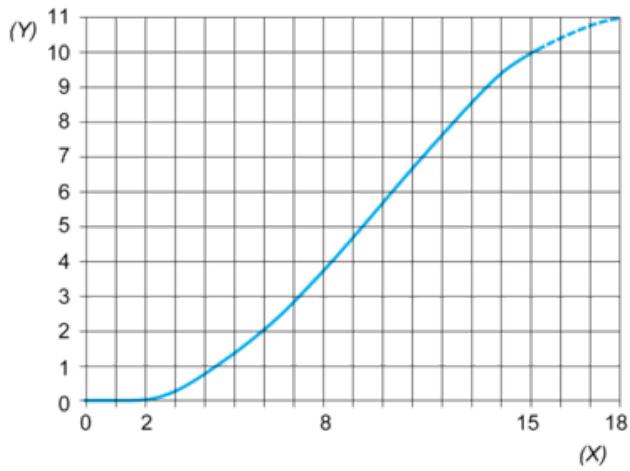


$e (3) \geq 45$

**Wiring Schemes****3-Wire Connection****BU** : Blue**BN** : Brown**BK** : Black**(1)** Voltage output

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

	Output current	Load impedance value	Output voltage	Load impedance value
24 V	0...10 mA	$R \leq 1400 \Omega$	0...10 V	$R = 1000 \Omega$

**Output Curves**(Y)  $U_s$  (V)

(X) Sensors - object distance (mm)

**Recommended replacement(s)**