

Product data sheet

Specifications



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

XS9E111A1L2

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	3-wire
[Sn] nominal sensing distance	10 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	1...10 mm
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 1 V
Cable composition	3 x 0.34 mm²

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

Environment

Product certifications	Ecolab CSA 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	4.2 cm
Package 1 Width	9.5 cm
Package 1 Length	13.2 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

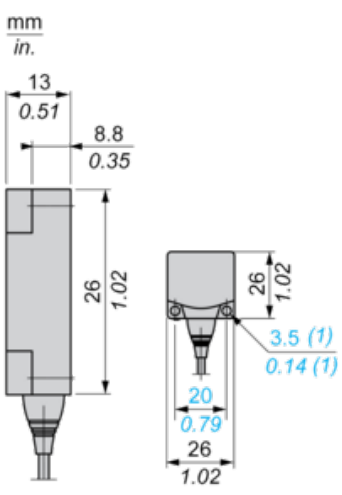
Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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

Contractual warranty

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

Dimensions

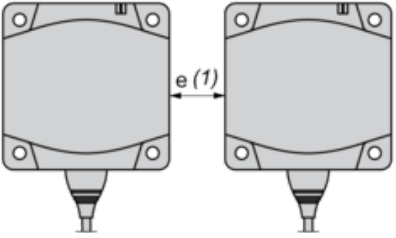


(1) For CHC type screws

Setting-up

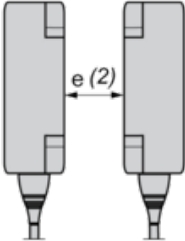
Minimum Mounting Distances (mm)

Side by Side



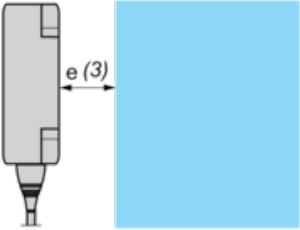
$e\ (1) \geq 30$

Face to Face



$e\ (2) \geq 72$

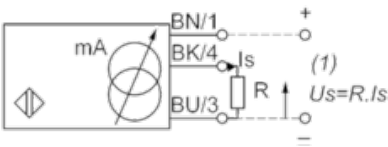
Facing a Metal Object



$e\ (3) \geq 30$

Wiring Schemes

3-Wire Connection



BU : Blue

BN : Brown

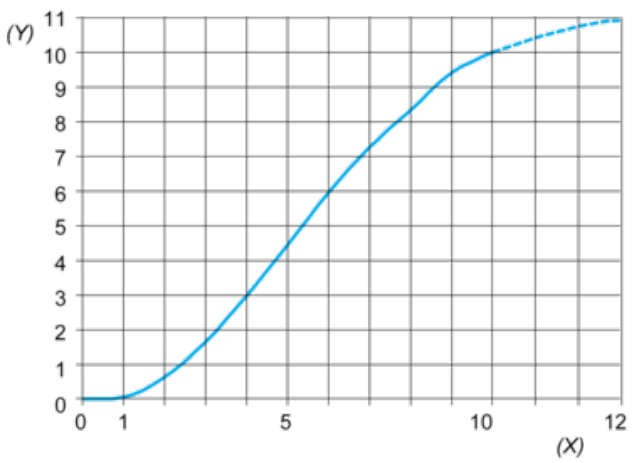
BK : Black

(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) Us (V)
(X) Sensors - object distance (mm)

Recommended replacement(s)