Specifications





Inductive proximity sensors XS, inductive sensor XS9 40x40x117, PBT, Sn25 mm, 24 VDC, terminals

XS9C4A2A1P20

Main

Range of product	Telemecanique Inductive proximity sensors XS		
Series name	General purpose		
Sensor type	Inductive proximity sensor		
Device application	-		
Sensor name	XS9		
Sensor design	Form 40 x 40 x 117		
Size	117 mm		
Body type	Fixed		
Detector flush mounting acceptance	Non flush mountable		
Material	Plastic		
Enclosure material	РВТ		
Type of output signal	Analogue		
Wiring technique	3-wire		
[Sn] nominal sensing distance	25 mm		
Output circuit type	DC		
Analogue output range	010 V		
Electrical connection	Screw-clamp terminals, 4 x 1.5 mm²		
[Us] rated supply voltage	24 V DC with reverse polarity protection		
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050		

Complementary

Detection face	5 positions turret head	
Front material	PBT	
Operating zone	227 mm	
Linearity error	<= 3% of Sr	
Maximum output current drift	5 %	
Cable entry number	1 tapped entry for M20 x 1.5 cable gland	

Status LED	Output state: 1 LED (yellow)
Supply voltage limits	1536 V DC
Current consumption	04 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	6 ms
Maximum delay recovery	6 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	117 mm
Net weight	0.244 kg
Environment	
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Product certifications	CSA UL	
Ambient air temperature for operation	-2570 °C	
Ambient air temperature for storage	-4085 °C	
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	50 gn for 11 ms conforming to EN 60068-2-27	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	244.0 g
Package 1 Height	14.5 cm
Package 1 width	5 cm
Package 1 Length	5 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
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	
Environmental Disclosure	Product Environmental Profile	
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	

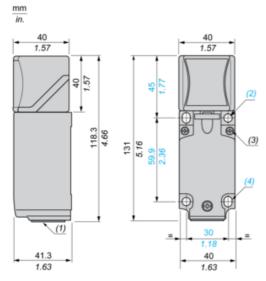
Contractual warranty

Warranty	18 months		
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Dimensions Drawings

Dimensions



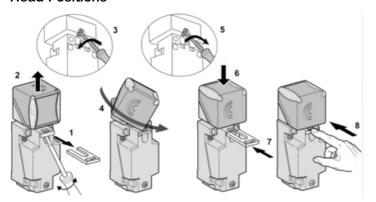
- (1): M20 x 1.5 cable gland.
- (2): 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.
- (3): 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.
- (4) : 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

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Mounting and Clearance

Mounting

Head Positions



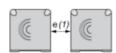
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Mounting and Clearance

Setting-up Precautions

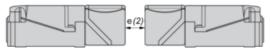
Minimum Mounting Distances (mm)

Side by Side



e (1) ≥ 120

Face to Face



e (2) ≥ 240

Facing a Metal Object



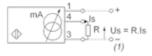
e (3) ≥ 90

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Connections and Schema

Wiring Schemes

3-Wire



(1) Output voltage

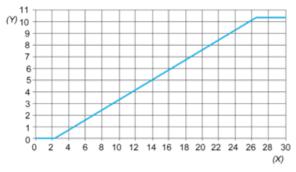
Ensure a minimum of 5 V between the + and the sensor output (terminal 4)

	Output current	Load impedance value	Output voltage	Load impedance value
12 V	010 mA	R ≤ 630 Ω	-	-
24 V	010 mA	R ≤ 1500 Ω	010 V	R = 1000 Ω

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Performance Curves

Analogue Outputs



- (Y) Output current (V)
- (X) Sensing distance (mm)