Product data sheet
Characteristics

XS612B2PAL01M12

Inductive proximity sensors XS, inductive sensor XS6 M12, L59mm, brass, Sn5mm, 12...24 VDC, M12 0.15 m

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Type of sensing window	Adjustable
Sensor name	XS6
Sensor design	Cylindrical M12
Size	55 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	5 Mm non flush mountable 3.4 mm flush mountable
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Remote male connector M12, 4 pins
Cable length	0.15 m
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
IP degree of protection	IP67 double insulation conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Sensing range	> 4...8 mm
Fine adjustment zone	1.7…3.4 Mm flush mountable 1.7…5 mm non flush mountable
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm²
Wire insulation material	PVC
Status LED	Supply on and teach mode: 1 LED (green) Output state: 1 LED (yellow)
Supply voltage limits	10…36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	CE

Telemecanique Sensors

Threaded length	42 mm
Length	59 mm
Net weight	0.1 kg

Environment

Product certifications	UL[RETURN]CSA
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	2.600 cm
Package 1 Width	12.500 cm
Package 1 Length	14.100 cm
Package 1 Weight	56.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.034 kg

Offer Sustainability

|	
Sustainable offer status	Green Premium product
Circularity Profile	End of Life Information
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

XS612B2PAL01M12

Dimensions
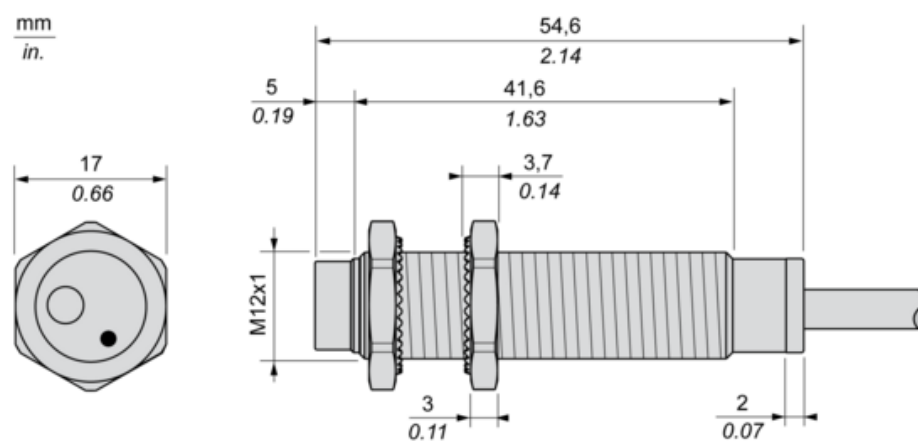
Minimum Mounting Distances in mm

Side by side
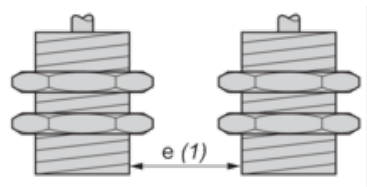
e (1)			
Flush mounted		Not flush mounted	
mm	in.	mm	in.
≥ 14	≥ 0.55	50	1.97

Face to face
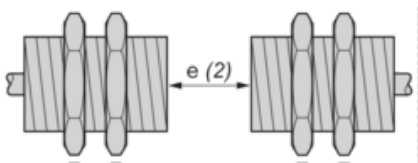
e (2)			
Flush mounted		Not flush mounted	
mm	in.	mm	in.
≥ 50	≥ 1.97	100	3.94

Facing a metal object

e (3)	
mm	in.
≥ 3.4	≥ 0.13

Telemecanique
Sensors
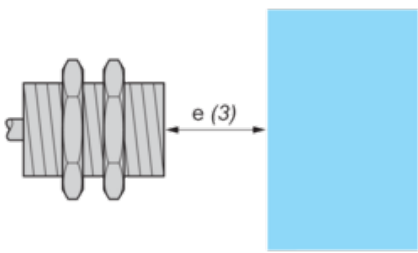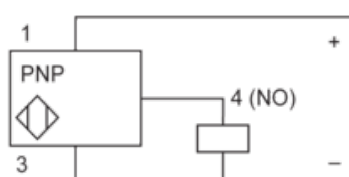
Wiring Schemes

M12 connector

PNP

1 : (+)

2 : Not connected

3 : (-)

4 : NO Output