Product data sheet Characteristics

XS612B1PAL2

inductive sensor XS6 M12 - L54mm - brass - Sn4mm - 12..48VDC - cable 2m





Main

Range of product	OsiSense XS	,
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Device application	Mobile equipment	
Sensor name	XS6	
Sensor design	Cylindrical M12	
Size	54 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Metal	
Type of output signal	Discrete	
Wiring technique	3-wire	
[Sn] nominal sensing distance	4 mm	
Discrete output function	1 NO	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Cable	
Cable length	2 m	
[Us] rated supply voltage	1248 V DC with reverse polarity protection	
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection	
IP degree of protection	IP68 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	> 2.54 mm
Operating zone	03.2 mm
Differential travel	115% of Sr
Cable composition	3 x 0.34 mm²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	1058 V DC
Switching frequency	<= 2500 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Length	54 mm
Net weight	0.075 kg

Environment

Product certifications	UL
	E2
	CSA
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 IEC 60068-2-27

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	78 g
Package 1 Height	4.1 cm
Package 1 width	9.6 cm
Package 1 Length	13.1 cm
Unit Type of Package 2	S03
Number of Units in Package 2	44
Package 2 Weight	4.112 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Weight	48.112 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 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	
Circularity Profile	End of Life Information	

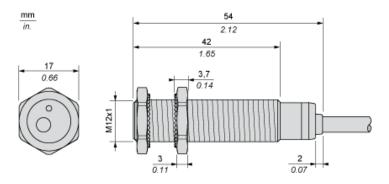
Contractual warranty

Warranty	18 months
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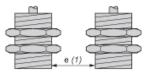
Dimensions Drawings

Dimensions



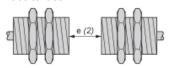
Minimum Mounting Distances

Side by side

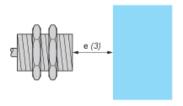


e (1) ≥ 8 mm/0.31 in.

Face to face



e (2) ≥ 48 mm/1.89 in. Facing a metal object

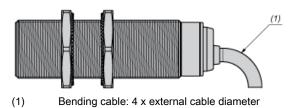


e (3) \geq 12 mm/0.47 in.

Product data sheet Mounting and Clearance

XS612B1PAL2

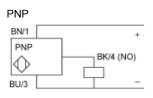
Mounting



Product data sheet Connections and Schema

XS612B1PAL2

Wiring Schemes



BU: Blue Brown BK: Black