XS1N18PC410

inductive sensor XS1 M18, L37mm, brass, Sn5mm, 12..24VDC, cable 2 m





Main

Range of product	Telemecanique Inductive proximity sensors XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Device application	Mobile equipment	
Sensor name	XS1	
Sensor design	Cylindrical M18	
Size	40 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Metal	
Type of output signal	Discrete	
Wiring technique	4-wire	
[Sn] nominal sensing distance	5 mm	
Discrete output function	1 NO + 1 NC	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Cable	
Cable length	2 m	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Switching capacity in mA	<= 200 mA with overload and short-circuit protection	
IP degree of protection	IP68 conforming to IEC 60529 IP65	

Complementary		
Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061	
Safety reliability data	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller	
Service life	20 year(s)	
Thread type	M18 x 1	
Detection face	Frontal	
Front material	PPS	
Enclosure material	Nickel plated brass	
Operating zone	04 mm	
Differential travel	115% of Sr	
Cable composition	4 x 0.22 mm²	
Wire insulation material	PvR	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	936 V DC	
Switching frequency	<= 2000 Hz	
Maximum voltage drop	<2 V (closed)	
Current consumption	010 mA no-load	

Maximum delay first up	5 ms
Maximum delay response	0.15 ms
Maximum delay recovery	0.35 ms
Marking	CE
Threaded length	28 mm
Length	40 mm
Net weight	0.1 kg

Environment

Standards	IEC 62061 EN/ISO 13849-1	
Product certifications	E2 TÜV 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 IEC 60068-2-27	

Packing Units

· coming of the	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	102.0 g
Package 1 Height	4 cm
Package 1 width	14 cm
Package 1 Length	16.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	44
Package 2 Weight	4.986 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	30 cm

Offer Sustainability

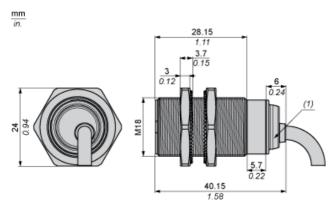
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
California proposition 65 WARNING: This product can expose you to chemicals inclu phthalate (DINP), which is known to the State of California to and Di-isodecyl phthalate (DIDP), which is known to the State to cause birth defects or other reproductive harm. For more www.P65Warnings.ca.gov		

Contractual warranty

Warranty	18 mon	he
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Dimensions

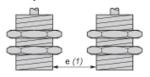


(1) LED

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Minimum Mounting Distances

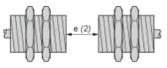
Side by side



e (1) 10 mm/0.39 in.

2

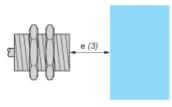
Face to face



e (2) 60 mm/2.36 in.

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Facing a metal object



e (3) 15 mm/0.60 in

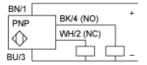
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Product data sheet Connections and Schema

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Wiring Schemes

PNP 4-wire

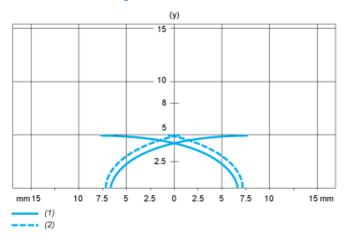


BU: Blue BN: Brown BK: Black WH: White

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Performance Curves

Standard Steel Target: 18x18x1 mm



- (1) Pick-up points(2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm