Product datasheet

Specifications

Green Premium™

inductive sensor XS1 M30 - L41mm - brass - Sn10mm - 12..24VDC - cable 5m

XS1N30PC410L1

⚠ To be discontinued on: 31 December 2022

> ⚠ To be discontinued

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 M30
Size	44 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	10 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	5 m
[Us] rated supply voltage	12...24 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

The disclaimer sidebar text.

Service life	20 year(s)
Thread type	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0…8 mm
Differential travel	1...15% of Sr
Cable composition	4 x 0.22 mm²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	9…36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	CE
Threaded length	32 mm
Length	44 mm
Net weight	0.28 kg 0.16 kg

Environment

Standards	IEC 62061 EN/ISO 13849-1
Product certifications	UL E2 TÜV 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 Weight	320.0 g
Package 1 Height	8 cm
Package 1 width	8 cm
Package 1 Length	14.8 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	320.0 g

Package 2 Height	4.5 cm
Package 2 width	25 cm
Package 2 Length	20 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
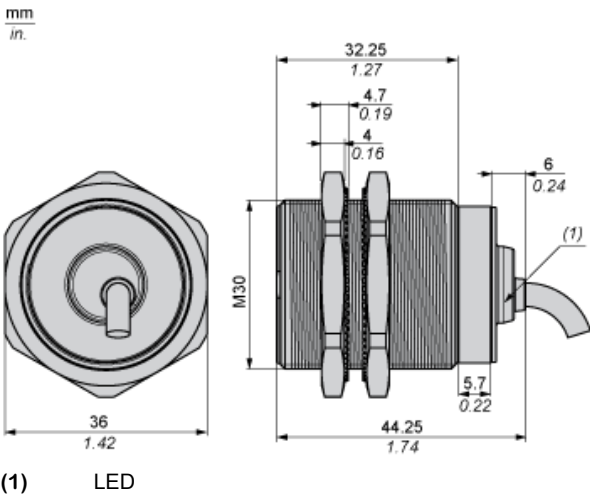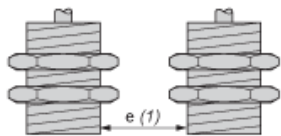
XS1N30PC410L1

Dimensions

(1)   LED

XS1N30PC410L1

Wiring Schemes

PNP 4-wire

BN/1		+
PNP	BK/4 (NO)	
	WH/2 (NC)	
BU/3		–
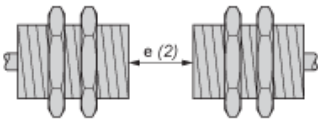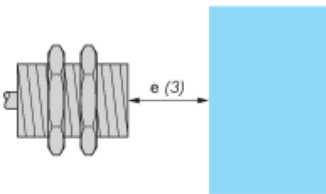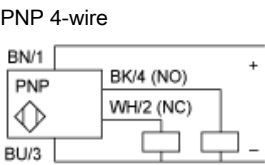
BU : Blue
BN : Brown
BK : Black
WH : White

Performance Curves

Standard Steel Target : 30x30x1 mm

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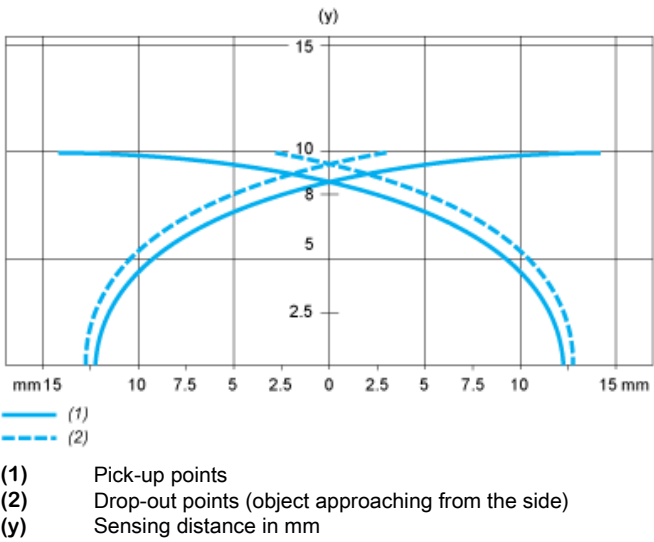
Recommended replacement(s)

XS1N30PC410L1 is replaced by the following group of products:

1x		Inductive proximity sensors XS, inductive sensor XS1 M30, PNP NO&NC, Flush, Sn15mm, 12...24 VDC, M12 XS130B3PCM12
1x		pre-wired connectors XZ - straight female - M12 - 4 pins - cable PVC 5m XZCPV1141L5