

# XS1N30PC410

inductive sensor XS1 M30 - L41mm - brass -  
Sn10mm - 12..24VDC - cable 2m



## 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	2 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 IEC 61508 PL = d conforming to 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	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 mm <sup>2</sup>
Wire insulation material	PVC
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	0.16 kg




## Environment

Standards	ISO 13849-1 IEC 62061
Product certifications	UL[RETURN]TÜV[RETURN]E2[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	4.200 cm
Package 1 Width	11.900 cm
Package 1 Length	17.000 cm
Package 1 Weight	170.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.323 kg

## Offer Sustainability

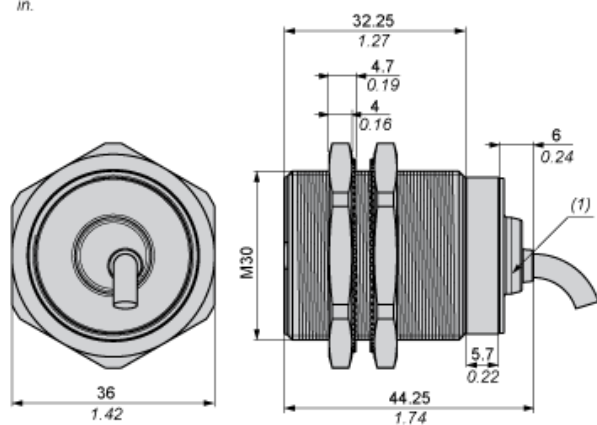
Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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## Dimensions

$\frac{\text{mm}}{\text{in.}}$



(1) LED

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Minimum Mounting Distances

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Side by side



e (1) 20 mm/0.79 in

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Face to face



e (2) 120 mm/4.72 in

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Facing a metal object

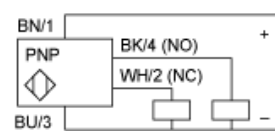


e (3) 30 mm/1.18 in.

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## Wiring Schemes

### PNP 4-wire



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

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Performance Curves

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Standard Steel Target : 30x30x1 mm



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