

# Product data sheet

Specifications



Inductive proximity sensors XS, inductive sensor XS6 M30, L74mm, brass, Sn22mm, 12...48 VDC, M12

XS630B4PAM12

## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS6
Sensor design	Cylindrical M30
Size	74 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	22 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	12...48 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Complementary

Thread type	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Sensing range	> 15...40 mm
Operating zone	0...17.6 mm

<b>Differential travel</b>	1...15% of Sr
<b>Status LED</b>	Output state: 1 LED (yellow)
<b>Supply voltage limits</b>	10...58 V DC
<b>Switching frequency</b>	<= 500 Hz DC
<b>Maximum voltage drop</b>	<2 V (closed)
<b>Current consumption</b>	<= 10 mA no-load
<b>Maximum delay first up</b>	10 ms
<b>Maximum delay response</b>	0.6 ms
<b>Maximum delay recovery</b>	1.4 ms
<b>Marking</b>	CE
<b>Threaded length</b>	41 mm
<b>Length</b>	74 mm
<b>Product weight</b>	0.145 kg

## Environment

<b>Product certifications</b>	UL CSA E2
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Vibration resistance</b>	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	50 gn for 11 ms conforming to IEC 60068-2-27

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.0 cm
<b>Package 1 Width</b>	6.5 cm
<b>Package 1 Length</b>	9.5 cm
<b>Package 1 Weight</b>	141.0 g
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	22
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	15 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	3.289 kg

## Offer Sustainability

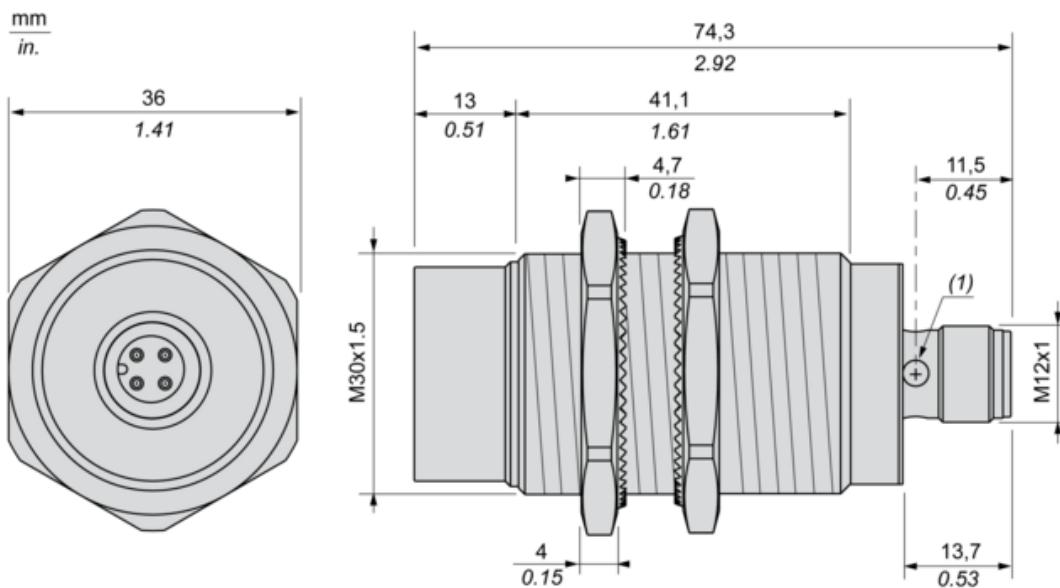
<b>Sustainable offer status</b>	Green Premium product
<b>REACh Regulation</b>	<a href="#">REACh Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>

<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	<p>WARNING: This product can expose you to chemicals including: Diisobutyl 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></p>

## Contractual warranty

<b>Warranty</b>	18 months
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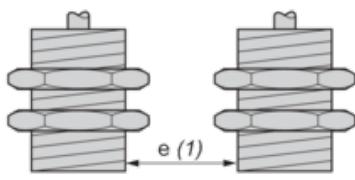
### Dimensions



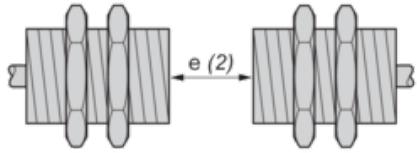
(1) : LED

**Minimum Mounting Distances in mm**

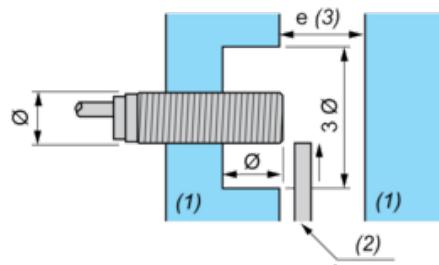
Side by side

 $e (1) \geq 120 \text{ mm/4.72 in.}$ 

Face to face

 $e (2) \geq 264 \text{ mm/10.39 in.}$ 

Facing a metal object

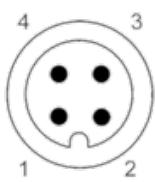
 $e (3) \geq 66 \text{ mm/2.60 in.}$ 

(4) Metal

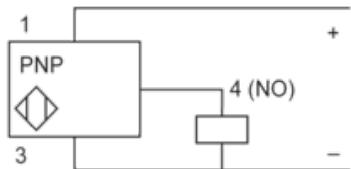
(5) Object to be detected

Wiring Schemes

**M12 connector**



**PNP**



1 : (+)

2 : Not connected

3 : (-)

4 : NO Output

**Recommended replacement(s)**