

# Product data sheet

Specifications



Inductive proximity sensors XS,  
inductive sensor XS5 Ø 6.5, L33mm,  
stainless, Sn1.5 mm, 12...24 VDC,  
cable 5 m

XS506B1PAL5

## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS5
Sensor design	Cylindrical Ø 6.5 mm plain
Size	33 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	1.5 mm
Discrete output function	1 NO
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 DC with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Detection face	Frontal
Front material	PPS
Enclosure material	Stainless steel 303
Operating zone	0...1.2 mm
Differential travel	1...15% of Sr

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

<b>Cable composition</b>	3 x 0.11 mm <sup>2</sup>
<b>Wire insulation material</b>	PvR
<b>Status LED</b>	Output state: 1 LED (yellow)
<b>Supply voltage limits</b>	10...36 V DC
<b>Switching frequency</b>	<= 5000 Hz
<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>	0.1 ms
<b>Maximum delay recovery</b>	0.1 ms
<b>Marking</b>	CE
<b>Height</b>	6.5 mm
<b>Length</b>	33 mm
<b>Net weight</b>	0.035 kg

## Environment

<b>Product certifications</b>	UL CSA
<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 Weight</b>	65 g
<b>Package 1 Height</b>	13 cm
<b>Package 1 width</b>	4.1 cm
<b>Package 1 Length</b>	9.4 cm
<b>Unit Type of Package 2</b>	BAG
<b>Number of Units in Package 2</b>	1
<b>Package 2 Weight</b>	65 g
<b>Package 2 Height</b>	4.5 cm
<b>Package 2 width</b>	25 cm
<b>Package 2 Length</b>	20 cm

## 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

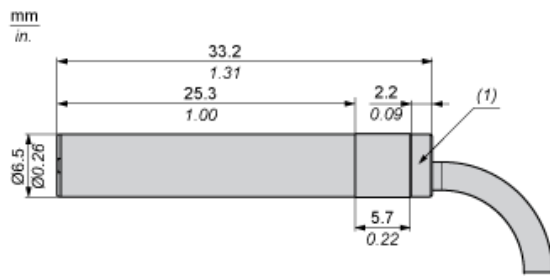
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Diisononyl 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>

## Contractual warranty

<b>Warranty</b>	18 months
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Dimensions

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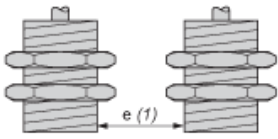


(1) LED

**Minimum Mounting Distances**

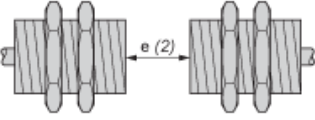
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Side by side



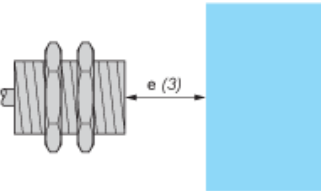
**e (1) ≥ 3 mm/0.12 in.**

Face to face



**e (2) ≥ 18 mm/0.71 in.**

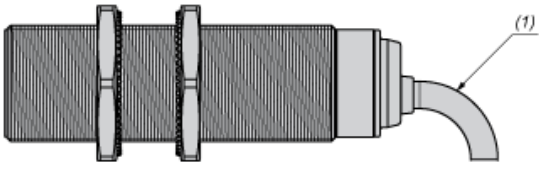
Facing a metal object



**e (3) ≥ 4.5 mm/0.18 in.**

**Mounting**

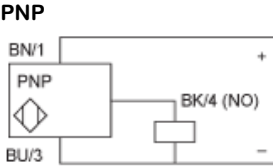
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(1) Bending cable: 4 x external cable diameter

**Wiring Schemes**

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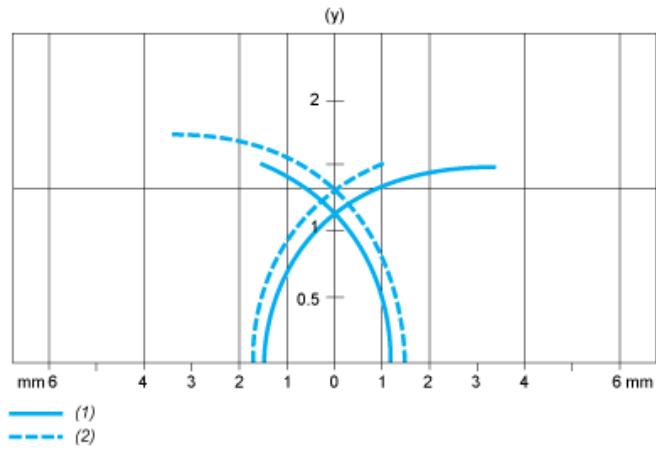


- BU :** Blue
- BN :** Brown
- BK :** Black

Performance Curves

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Standard Steel Target : 8x8x1 mm



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