

# Product datasheet

Specifications



inductive sensor XS4 M18 - L41mm  
- PBT - Sn8mm - 12..24VDC - cable  
2m

XS4P18AB120

## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Electrical circuit type	Analog output
Sensor name	XS4
Sensor design	Cylindrical M18
Size	41 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Type of output signal	Analogue
Wiring technique	2-wire
[Sn] nominal sensing distance	8 mm
Output circuit type	DC
Analogue output range	4...20 mA
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	12...24 V DC
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Thread type	M18 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	PBT
Operating zone	0.8...8 mm
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 2 mA

<b>Cable composition</b>	3 x 0.34 mm <sup>2</sup>
<b>Wire insulation material</b>	PVC
<b>Supply voltage limits</b>	10...38 V DC
<b>Switching frequency</b>	<= 500 Hz
<b>Current consumption</b>	4 mA no-load
<b>Maximum output current drift</b>	10 %
<b>Marking</b>	CE
<b>Threaded length</b>	26 mm
<b>Height</b>	18 mm
<b>Length</b>	41 mm
<b>Net weight</b>	0.08 kg

## Environment

<b>Product certifications</b>	CSA UL
<b>Ambient air temperature for operation</b>	-25...70 °C

## Packing Units

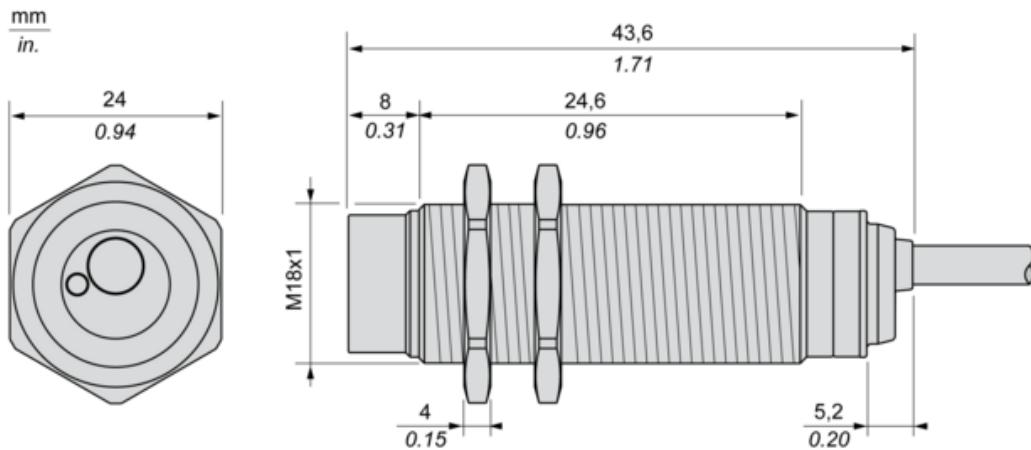
<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.1 cm
<b>Package 1 Width</b>	9.5 cm
<b>Package 1 Length</b>	13.0 cm
<b>Package 1 Weight</b>	81.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	44
<b>Package 2 Height</b>	30 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	4.074 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>

## Contractual warranty

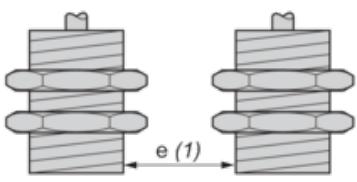
<b>Warranty</b>	18 months
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**Dimensions**

### Minimum Mounting Distances

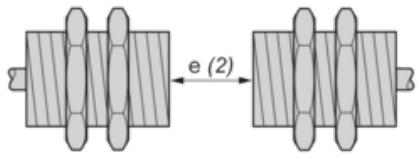
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Side by side



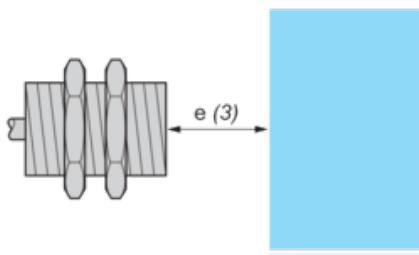
**e (1) ≥ 32 mm/1.26 in.**

Face to face



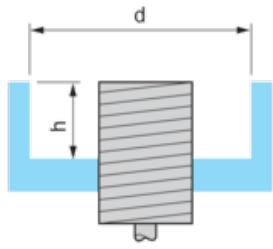
**e (2) ≥ 96 mm/3.78 in.**

Facing a metal object



**e (3) ≥ 24 mm/0.94 in.**

Mounted in a metal support

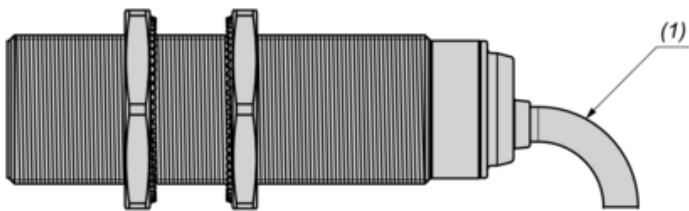


**d ≥ 56 mm/2.20 in.**

**h ≥ 16 mm/0.63 in.**

### Mounting

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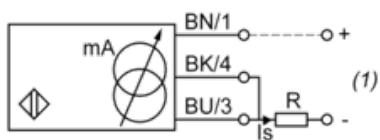


(1) Bending cable: 4 x external cable diameter

### Wiring Schemes

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2-Wire connection



(1) Output current

**BN** : Brown

**BK** : Black

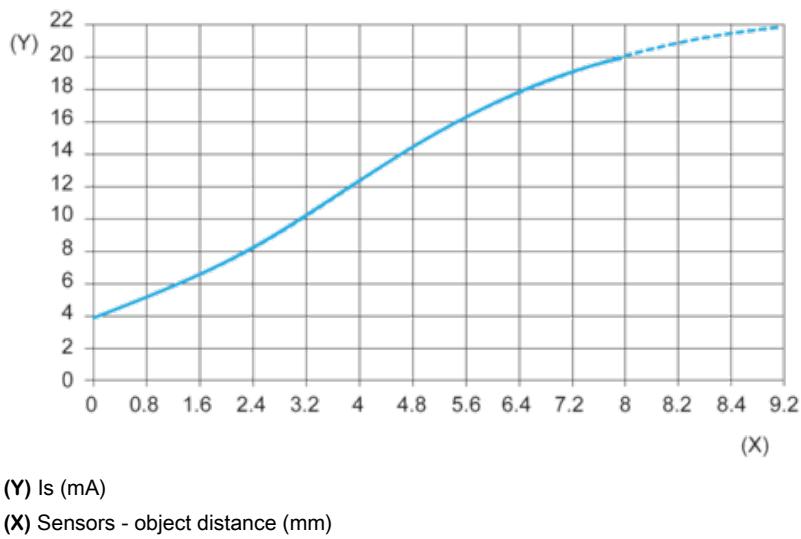
**BU** : Blue

	Output current	Load impedance value
12 V	4...20 mA	$R \leq 8.2 \Omega$
24 V	4...20 mA	$R \leq 470 \Omega$

Ensure a minimum of 10 V between the + and the - (terminal 3) of the sensor.

### Output Curves

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### Recommended replacement(s)