

# XS4P18AB110L1

Inductive proximity sensors XS, inductive sensor XS4 M18, L41mm, PBT, Sn8mm, 24...48 VDC, cable 5 m



## 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	3-wire
[Sn] nominal sensing distance	0.3 in (8 mm)
Output circuit type	DC
Analogue output range	0...10 V
Electrical connection	Cable
Cable length	16.4 ft (5 m)
[Us] rated supply voltage	24...48 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	0.03...0.3 in (0.8...8 mm)
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 2 mA
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PVC
Supply voltage limits	15...58 V DC
Switching frequency	<= 500 Hz
Current consumption	4 mA no-load
Maximum output current drift	10 %
Marking	CE
Threaded length	1.02 in (26 mm)
Length	1.6 in (41 mm)

## Environment

Product Certifications	CSA[RETURN]CCC[RETURN]UL
Ambient Air Temperature for Operation	-13.0000000000...158.0000000000 °F (-25...70 °C)


## Ordering and shipping details

Category	US10DS222486
Discount Schedule	0DS2
GTIN	3389110546378
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.457 in (3.700 cm)
Package 1 Width	4.882 in (12.400 cm)
Package 1 Length	5.236 in (13.300 cm)
Package 1 Weight	5.608 oz (159.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	5.589 lb(US) (2.535 kg)

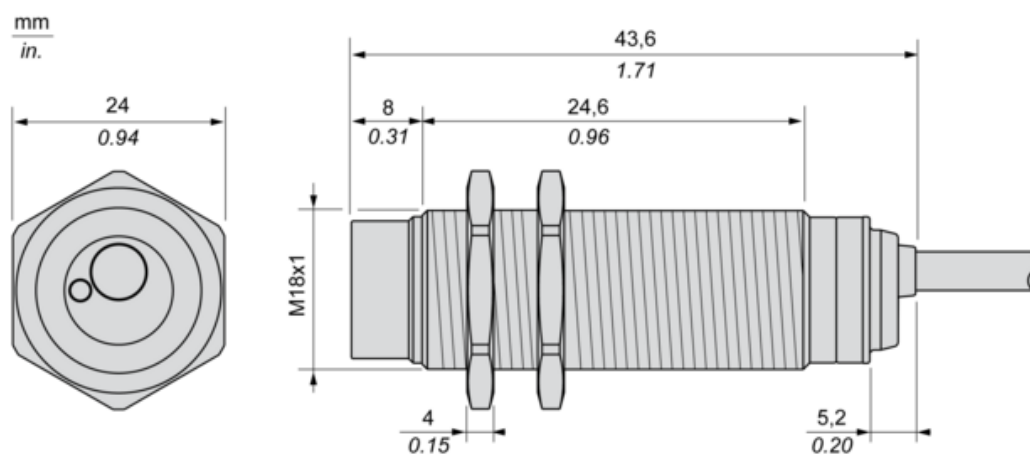
## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	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>
Circularity Profile	 <a href="#">End of Life Information</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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Dimensions



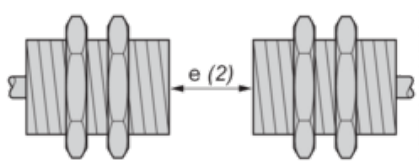
## Minimum Mounting Distances

Side by side



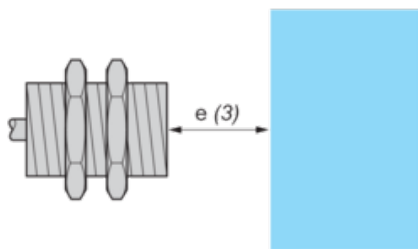
$e(1) \geq 32 \text{ mm}/1.26 \text{ in.}$

Face to face



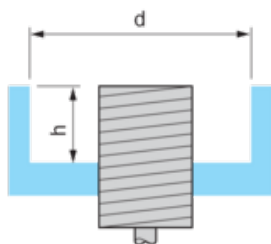
$e(2) \geq 96 \text{ mm}/3.78 \text{ in.}$

Facing a metal object



$e(3) \geq 24 \text{ mm}/0.94 \text{ in.}$

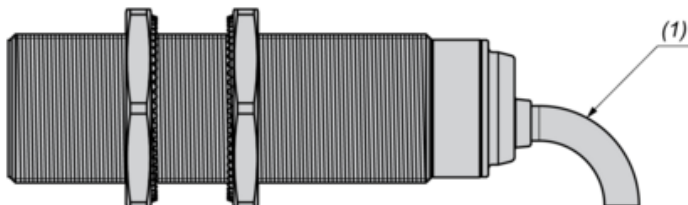
Mounted in a metal support



$d \geq 56 \text{ mm}/2.20 \text{ in.}$

$h \geq 16 \text{ mm}/0.63 \text{ in.}$

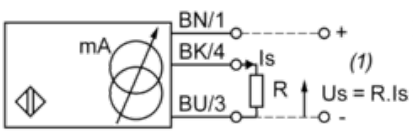
## Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

3-Wire connection



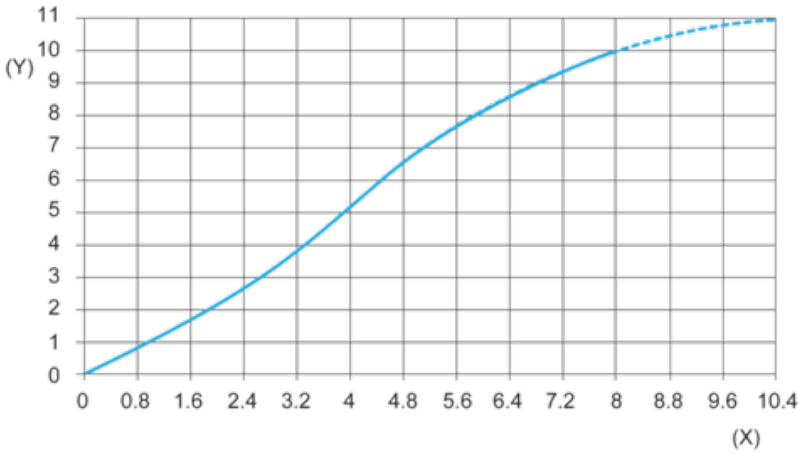
(1) Voltage output

BN : Brown  
BK : Black  
BU : Blue

	Output current	Load impedance value	Output voltage	Load impedance value
24 V	0...10 mA	$R \leq 1500 \, \Omega$	0...10 V	$R = 1000 \, \Omega$
48 V	0...10 mA	$R \leq 3300 \, \Omega$	0...10 V	$R = 1000 \, \Omega$

Ensure a minimum of 5 V between the + and the sensor output (terminal 4).

Output Curves



(Y) Is (V)

(X) Sensors - object distance (mm)