Product data sheet

Specifications

Inductive proximity sensors XS, inductive sensor XS4 M12, L50mm, PBT, Sn4mm, 12...24 VDC, cable 2 m

XS4P12AB120

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 M12
Size	54 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	4 mm
Discrete output function	1 NC
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	M12 x 1
Detection face	Frontal
Front material	PBT
Enclosure material	PBT
Operating zone	0.4…4 mm
Repeat accuracy	<= 3% of Sr

Linearity error	+/- 2 mA
Cable composition	3 x 0.34 mm²
Wire insulation material	PVC
Supply voltage limits	10…36 V DC
Switching frequency	<= 1500 Hz
Current consumption	4 mA no-load
Maximum output current drift	10 %
Marking	CE
Threaded length	42 mm
Height	12 mm
Length	50 mm
Net weight	0.065 kg

Environment

Product certifications	UL CSA
Ambient air temperature for operation	-25…70 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.6 cm
Package 1 Width	11.9 cm
Package 1 Length	11.9 cm
Package 1 Weight	72.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	1.959 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 www.P65Warnings.ca.gov

Contractual warranty

Warranty 18 months

Dimensions
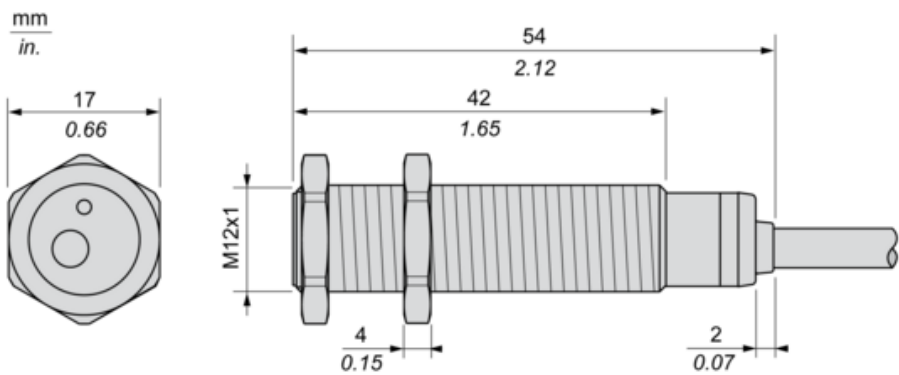
Minimum Mounting Distances

Side by side

e (1) ≥ 16 mm/0.63 in.

Face to face

e (2) ≥ 48 mm/1.89 in.

Facing a metal object

e (3) ≥ 12 mm/0.47 in.

Mounted in a metal support

d ≥ 36 mm/1.42 in.
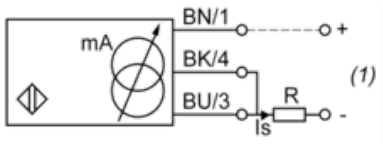
h ≥ 8 mm/0.31 in.

Mounting

(1) Bending cable: 4 x external cable diameter
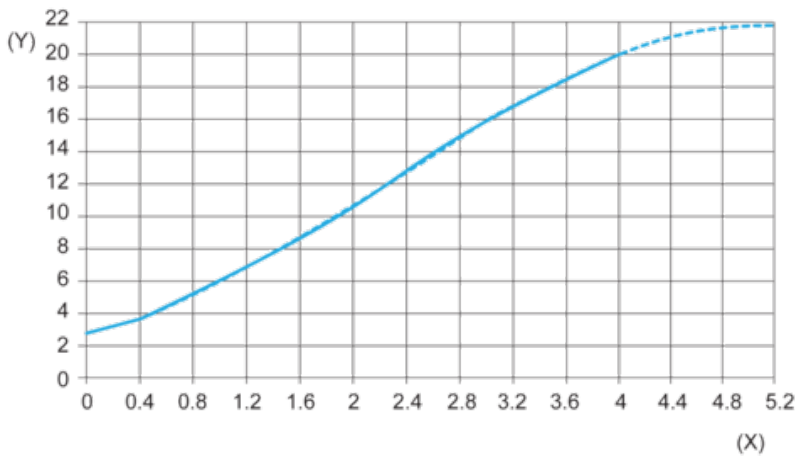
Wiring Schemes

2-Wire connection

(1) Output current

BN : Brown

BK : Black

BU : Blue

	Output current	Load impedance value
12 V	4...20 mA	R ≤ 8.2 Ω
24 V	4...20 mA	R ≤ 470 Ω
Ensure a minimum of 10 V between the + and the - (terminal 3) of the sensor.		

Output Curves

(Y) Is (mA)

(X) Sensors - object distance (mm)

Recommended replacement(s)