Product data sheet

Specifications

Inductive proximity sensors XS, inductive sensor XS1 M30, L50mm, brass, Sn10mm, 12...24 VDC, cable 2 m

XS1M30AB120

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Electrical circuit type	Analog output
Sensor name	XS1
Sensor design	Cylindrical M30
Size	54 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Analogue
Wiring technique	2-wire
[Sn] nominal sensing distance	10 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	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	1…10 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	<= 300 Hz
Current consumption	4 mA no-load
Maximum output current drift	10 %
Marking	CE
Threaded length	42 mm
Height	30 mm
Length	50 mm
Net weight	0.2 kg

Environment

Product certifications	CSA UL
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	5.0 cm
Package 1 Width	9.2 cm
Package 1 Length	13.1 cm
Package 1 Weight	181.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.492 kg

Offer Sustainability

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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

Product data sheet

Mounting and Clearance

XS1M30AB120
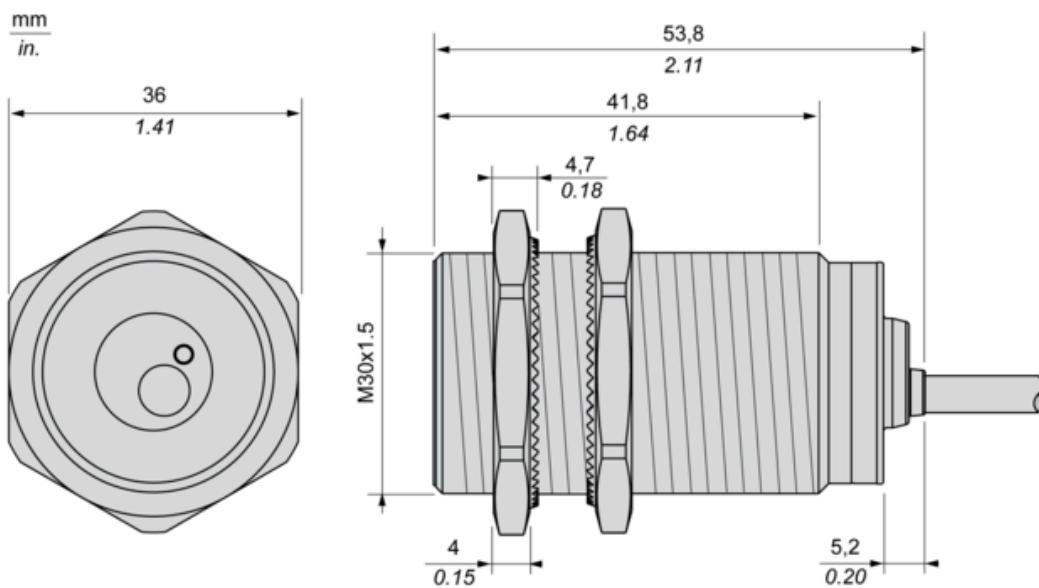
Minimum Mounting Distances

Side by side
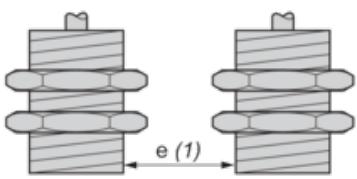
e (1) ≥ 20 mm/0.79 in

Face to face
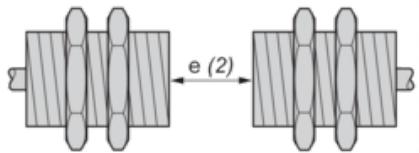
e (2) ≥ 120 mm/4.72 in

Facing a metal object
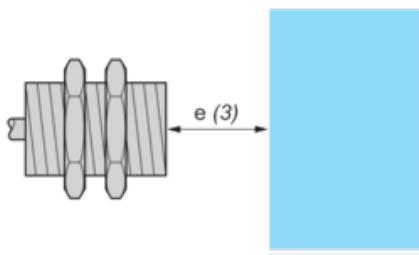
e (3) ≥ 30 mm/1.18 in.

Wiring Schemes

2-Wire connection
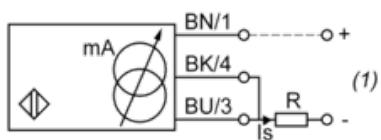
(1) Output current

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.		

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Output Curves

(Y) Is (mA)
(X) Sensors - object distance (mm)
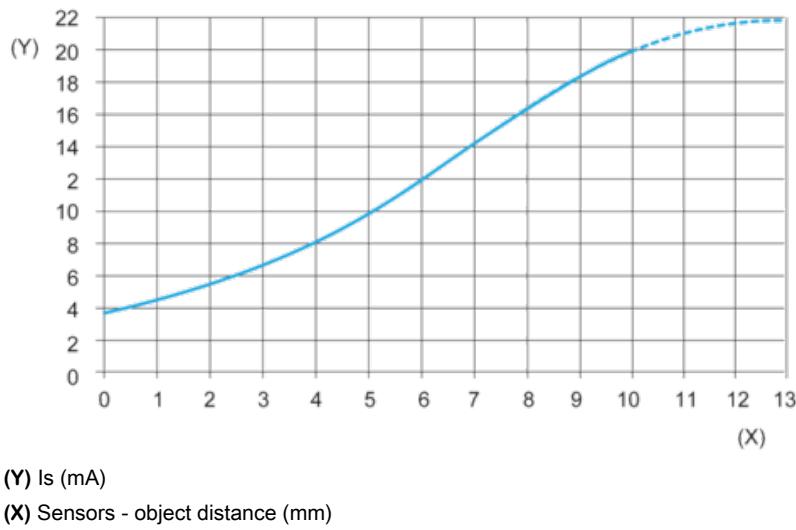
Recommended replacement(s)