



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	420 mA
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	1224 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	110 mm
Repeat accuracy	<= 3% of Sr

Linearity error	+/- 2 mA
Cable composition	3 x 0.34 mm²
Wire insulation material	PvR
Supply voltage limits	1036 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	-2570 °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	
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

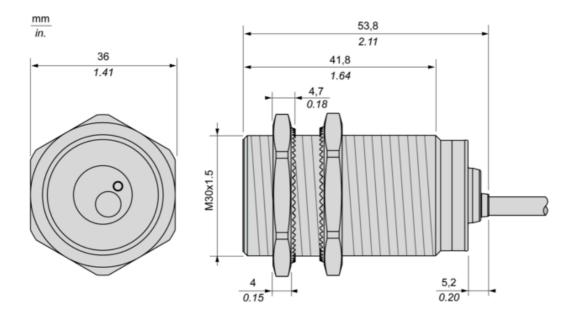
18 months

# **Product data sheet**

# XS1M30AB120

**Dimensions Drawings** 

#### **Dimensions**

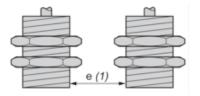


## XS1M30AB120

Mounting and Clearance

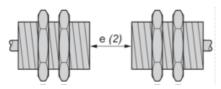
### **Minimum Mounting Distances**

#### Side by side

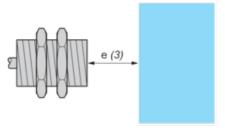


e (1) ≥ 20 mm/0.79 in

Face to face



e (2) ≥ 120 mm/4.72 in Facing a metal object



e (3) ≥ 30 mm/1.18 in.

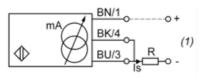
## **Product data sheet**

## XS1M30AB120

### Connections and Schema

### Wiring Schemes

### 2-Wire connection



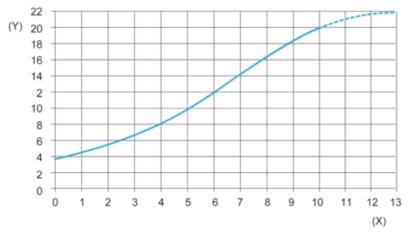
(1) Output current

 ${\bf BN}: {\sf Brown}$ **BK**: Black BU : Blue

	Output current	Load impedance value		
12 V	420 mA	R ≤ 8.2 Ω		
24 V	420 mA	R ≤ 470 Ω		
Ensure a minimum of 10 V between the + and the - (terminal 3) of the sensor.				

Performance Curves

### **Output Curves**



- **(Y)** Is (mA)
- (X) Sensors object distance (mm)

### Recommended replacement(s)