



Inductive proximity sensors XS, inductive sensor XS1 M12, L50mm, brass, Sn2mm, 12...24 VDC, cable 2 m

XS1M12AB120

mani		
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 M12	
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	2 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	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0.22 mm
Repeat accuracy	<= 3% of Sr

Linearity error	+/- 2 mA
Cable composition	3 x 0.34 mm <sup>2</sup>
Wire insulation material	PvR
Supply voltage limits	1036 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	0.075 kg
Environment	
Product certifications	UL CSA
Ambient air temperature for	-2570 °C
operation	
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.4 cm
Package 1 Width	11.2 cm
Package 1 Length	11.8 cm
Package 1 Weight	85.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.175 kg
<b>55</b>	-

#### Offer Sustainability

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

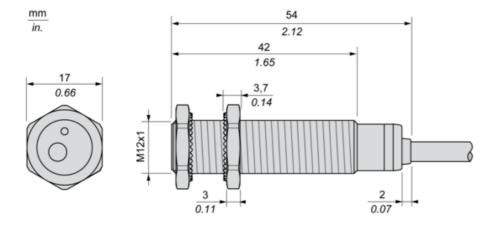
18 months

## **Product data sheet**

# XS1M12AB120

**Dimensions Drawings** 

#### **Dimensions**

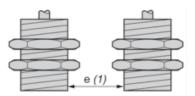


# XS1M12AB120

Mounting and Clearance

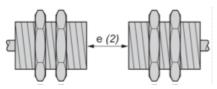
### **Minimum Mounting Distances**

#### Side by side

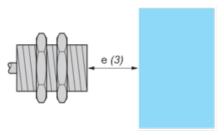


e (1) ≥ 4 mm/0.16 in.

Face to face



e (2) ≥ 24 mm/0.94 in. Facing a metal object



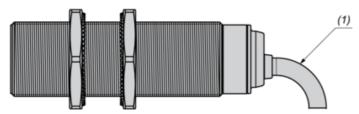
e (3) ≥ 6 mm/0.24 in.

## **Product data sheet**

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Mounting and Clearance

### Mounting



(1) Bending cable: 4 x external cable diameter

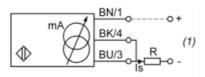
## **Product data sheet**

# XS1M12AB120

Connections and Schema

### Wiring Schemes

#### 2-Wire connection



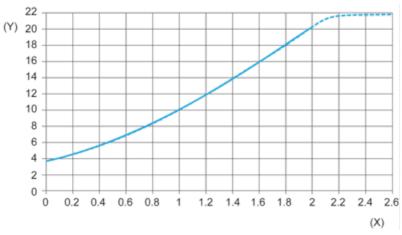
(1) Output current

**BN**: 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)