

# Product data sheet

## Characteristics

# XS1M18AB120

Inductive proximity sensors XS, inductive sensor XS1 M18, L53mm, brass, Sn5mm, 12...24 VDC, cable 2 m



Product availability: Stock - Normally stocked in distribution facility

Price\*: 208.26 USD



### 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 M18
Size	56 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	0.20 In (5 mm)
Discrete output function	1 NC
Output circuit type	DC
Analogue output range	4...20 mA
Electrical connection	Cable
Cable length	6.56 Ft (2 m)
[Us] rated supply voltage	12...24 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	Nickel Plated Brass
Operating zone	0.02...0.20 In (0.5...5 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	10...36 V DC
Switching frequency	<= 500 Hz
Current consumption	4 mA no-load
Maximum output current drift	10 %
Marking	CE
Threaded length	1.73 In (44 mm)
Height	0.71 In (18 mm)
Length	2.09 In (53 mm)
Net weight	0.26 Lb(US) (0.12 kg)

## Environment

Product certifications	UL CSA
Ambient air temperature for operation	-13...158 °F (-25...70 °C)

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	03389110332780
Nbr. of units in pkg.	1
Package weight(Lbs)	3.84 Oz (109 g)
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.61 In (4.1 cm)
Package 1 width	3.74 In (9.5 cm)
Package 1 Length	5.12 In (13 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	4.41 Oz (125 g)
Package 2 Height	1.18 In (3 cm)
Package 2 width	7.87 In (20 cm)
Package 2 Length	5.91 In (15 cm)
Unit Type of Package 3	S03
Number of Units in Package 3	44
Package 3 Weight	13.01 Lb(US) (5.9 kg)
Package 3 Height	11.81 In (30 cm)
Package 3 width	11.81 In (30 cm)
Package 3 Length	15.75 In (40 cm)

## 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 Diisodecyl 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>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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Dimensions



(1) LED

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Minimum Mounting Distances

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Side by side



$e (1) \geq 10 \text{ mm}/0.39 \text{ in.}$

Face to face



$e (2) \geq 10 \text{ mm}/2.36 \text{ in.}$

Facing a metal object



$e (3) \geq 5 \text{ mm}/0.60 \text{ in.}$

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Mounting

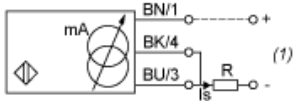
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(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire connection



(1) Output current

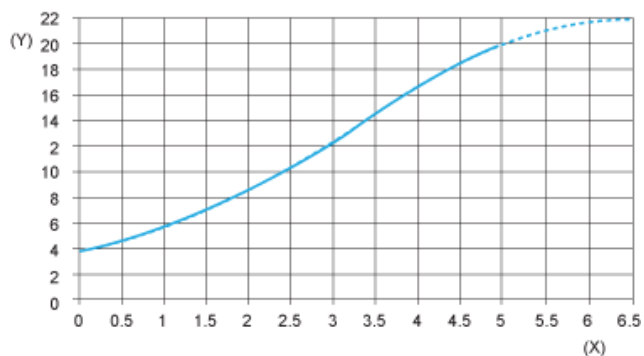
BN : Brown

BK : Black

BU : Blue

	Output current	Load impedance value
12 V	4...20 mA	$R \leq 8.2 \Omega$
24 V	4...20 mA	$R \leq 470 \Omega$

Output Curves



(Y) Is (mA)

(X) Sensors - object distance (mm)

Product Life Status : Commercialised