

# Product data sheet

## Characteristics

# XS1M12AB120L1

inductive sensor XS1 M12 - L50mm - brass -  
Sn2mm - 12..24VDC - cable 5m



Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

Range of product	OsiSense XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M12
Size	50 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	0.08 in (2 mm)
Discrete output function	1 NC
Output circuit type	DC
Analogue output range	4...20 mA
Electrical connection	Cable
Cable length	16.4 ft (5 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	PPS
Enclosure material	Nickel plated brass
Operating zone	0.01...0.08 in (0.2...2 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	<= 1500 Hz
Current consumption	4 mA at no-load
Output current drift	<= 10 %
Marking	CE
Threaded length	1.65 in (42 mm)
Height	0.47 in (12 mm)
Length	1.97 in (50 mm)

### Environment

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

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	003389110708899
Nbr. of units in pkg.	1
Package weight(Lbs)	8.0000000000000002E-2
Returnability	N
Country of origin	FR

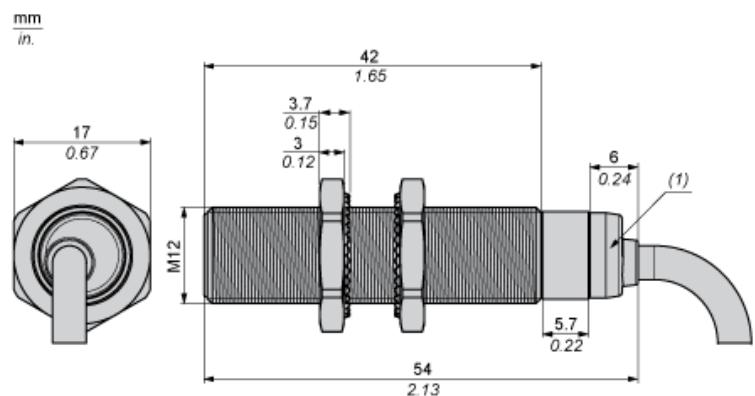
## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1010 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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Dimensions



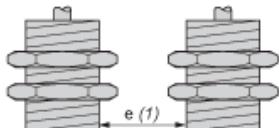
(1) LED

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### Minimum Mounting Distances

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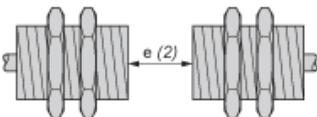
Side by side



$e (1)$  4 mm/0.16 in.

$\geq$

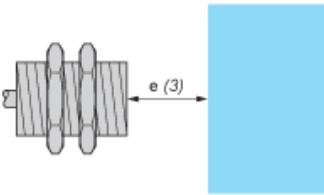
Face to face



$e (2)$  24 mm/0.94 in.

$\geq$

Facing a metal object



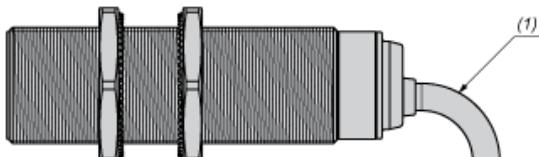
$e (3)$  6 mm/0.24 in.

$\geq$

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### Mounting

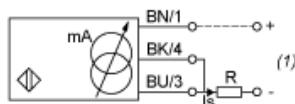
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(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

### 2-Wire connection



(1) Output current

BN : Brown

BK : Black

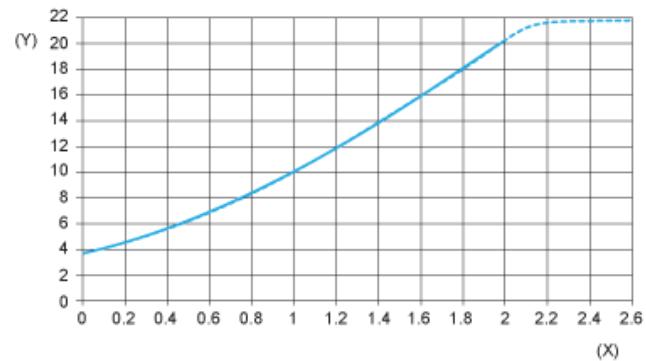
BU : Blue

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

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### Output Curves

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

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Authorized Distributor

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[XS1M12AB120L1](#)