Product data sheet
Characteristics

XS118BLNAM12
inductive sensor XS1 M18 - L64mm - brass - Sn5mm - 12..24VDC - M12

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS1
Sensor design	Cylindrical M18
Size	64 mm
Body type	Fixed
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	5 mm
Discrete output function	1 NO
Discrete output type	NPN
Electrical connection	4 pins M12 male connector
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

Complementary

ISO thread	M18 x 1
Detection face	Frontal
Detector flush mounting acceptance	Flush mountable
Material	Metal
Front material	PBT
Operating zone	0...4 mm
Differential travel	1...15% of Sr
Output circuit type	DC

Status LED	1 LED yellow for output state
Supply voltage limits	10...36 V DC
Switching frequency	<= 1200 Hz
Voltage drop	<= 2 V at closed state
Current consumption	<= 10 mA at no-load
Delay first up	<= 15 ms
Delay response	<= 0.1 ms
Delay recovery	<= 0.3 ms
Marking	CE
Threaded length	43 mm
Height	18 mm
Length	64 mm
Product weight	0.035 kg

Environment

Product certifications	CSA UL
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

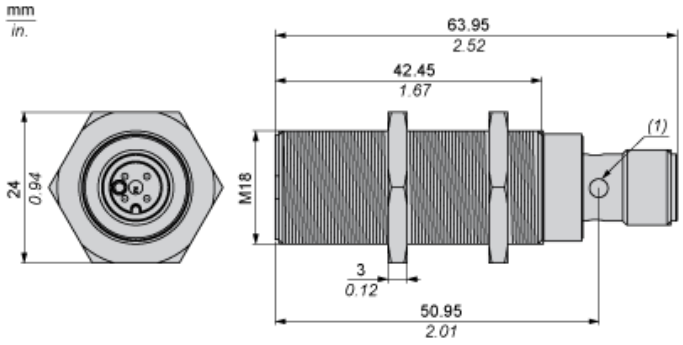
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0903 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of Life Information
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months

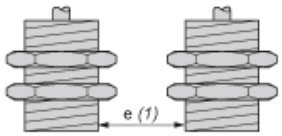
Dimensions



(1) LED

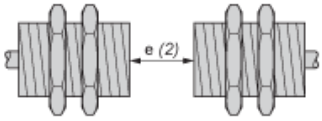
Minimum Mounting Distances

Side by side



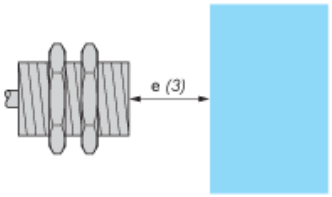
e (1) ≥ 10 mm/0.39 in.

Face to face



e (2) ≥ 60 mm/2.36 in.

Facing a metal object

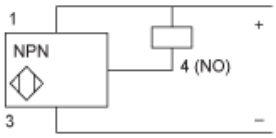


e (3) ≥ 15 mm/0.60 in

Wiring Schemes

M12 connector

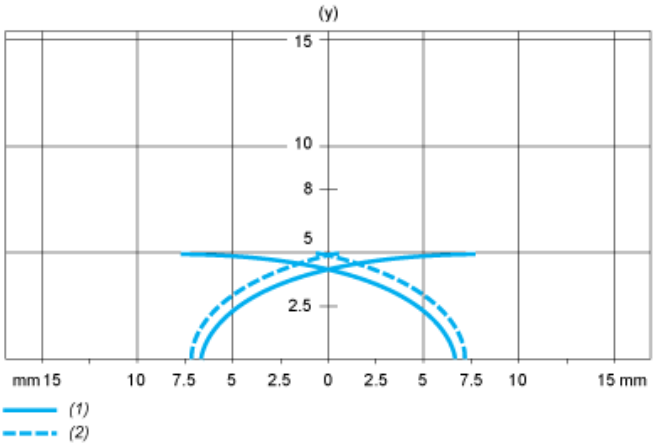
NPN



1 : (+)
2 : Not connected
3 : (-)
4 : NO Output

Performance Curves

Standard Steel Target : 18x18x1 mm



(1) Pick-up points
(2) Drop-out points (object approaching from the side)
(y) Sensing distance in mm