

Inductive proximity sensors XS, inductive sensor XS5 M12, L53mm, brass, Sn2mm, 12...48 VDC, cable 2 m

XS512B1DAL2

Main

Range Of Product	Telemecanique Inductive proximity sensors XS
Series Name	General purpose
Sensor Type	Inductive proximity sensor
Device Application	-
Sensor Name	XS5
Sensor Design	Cylindrical M12
Size	54 mm
Body Type	Fixed
Detector Flush Mounting Acceptance	Flush mountable
Material	Metal
Type Of Output Signal	Discrete
Wiring Technique	2-wire
[Sn] Nominal Sensing Distance	2 mm
Discrete Output Function	1 NO
Output Circuit Type	DC
Electrical Connection	Cable
Cable Length	2 m
[Us] Rated Supply Voltage	1248 V DC
Switching Capacity In Ma	1.5100 mA DC with overload and short-circuit protection
Ip Degree Of Protection	IP68 double insulation conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Thread Type	M12 x 1
Detection Face	Frontal
Front Material	PPS
Enclosure Material	Nickel plated brass
Operating Zone	01.6 mm
Differential Travel	115% of Sr
Cable Composition	2 x 0.34 mm²
Wire Insulation Material	PVC

Status Led	Output state: 1 LED (yellow)
Supply Voltage Limits	1058 V DC
Maximum Residual Current	0.5 mA open state
Switching Frequency	<= 4000 Hz
Maximum Voltage Drop	<4 V (closed)
Maximum Delay First Up	10 ms
Maximum Delay Response	0.2 ms
Maximum Delay Recovery	0.2 ms
Marking	CE
Threaded Length	42 mm
Length	53 mm
Net Weight	0.075 kg

Environment

Product Certifications	CSA UL CCC
Ambient Air Temperature For Operation	-2570 °C
Ambient Air Temperature For Storage	-4085 °C
Vibration Resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock Resistance	50 gn for 11 ms conforming to IEC 60068-2-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.500 cm
Package 1 Width	10.800 cm
Package 1 Length	12.000 cm
Package 1 Weight	73.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	44
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.949 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

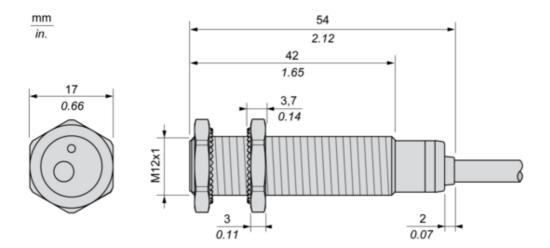
Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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 Diisodecyl 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

Dimensions Drawings

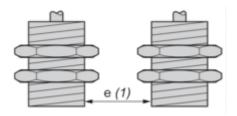
Dimensions



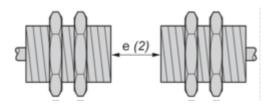
Mounting and Clearance

Minimum Mounting Distances

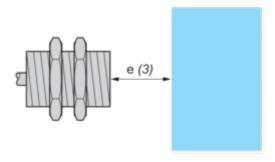
Side by side



e (1) ≥ 4 mm/0.16 in. Face to face

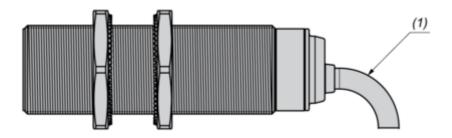


e (2) ≥ 24 mm/0.94 in. Facing a metal object



e (3) ≥ 6 mm/0.24 in.

Mounting



(1) Bending cable: 4 x external cable diameter

Product data sheet

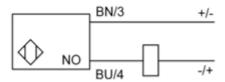
XS512B1DAL2

Connections and Schema

Wiring Schemes

2-Wire Non-polarised

NO output

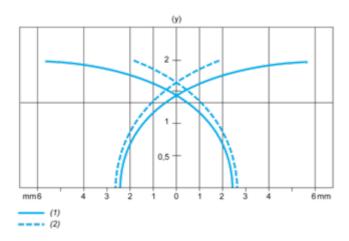


BU : Blue BN : Brown

Performance Curves

Performance Curves

Standard Steel Target: 12x12x1 mm



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