



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Wiring configuration	2-wire
Output circuit type	AC/DC
Protection type	Short-circuit protection multi voltage
Device application	2-wire DC short-circuit protection
Sensor name	XS1
Sensor design	Cylindrical M12
Size	55 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
Electrical connection	Cable
Cable length	2 M
[Us] rated supply voltage	24...210 V DC 24...240 V AC 50/60 Hz
Switching capacity in mA	5...200 mA AC/DC with overload and short-circuit protection
IP degree of protection	IP68 double insulation conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...1.6 Mm
Differential travel	1...15% of Sr
Cable composition	2 x 0.34 mm ²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)

Supply voltage limits	20...264 V AC/DC
Maximum residual current	1.5 MA open state
Switching frequency	<= 4000 Hz DC <= 25 Hz AC
Maximum voltage drop	<5.5 V (closed state)
Maximum delay first up	70 Ms
Maximum delay response	0.2 Ms
Maximum delay recovery	0.2 Ms
Marking	CE
Threaded length	42 Mm
Length	57 Mm
Net weight	0.075 Kg

Environment

Product certifications	CCC UL CSA
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 60068-2-7

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	94 G
Package 1 Height	4.2 Cm
Package 1 width	9.6 Cm
Package 1 Length	13 Cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	94 G
Package 2 Height	2.5 Cm
Package 2 width	20 Cm
Package 2 Length	15 Cm
Unit Type of Package 3	S02
Number of Units in Package 3	22
Package 3 Weight	2.384 Kg
Package 3 Height	15 Cm
Package 3 width	30 Cm
Package 3 Length	40 Cm

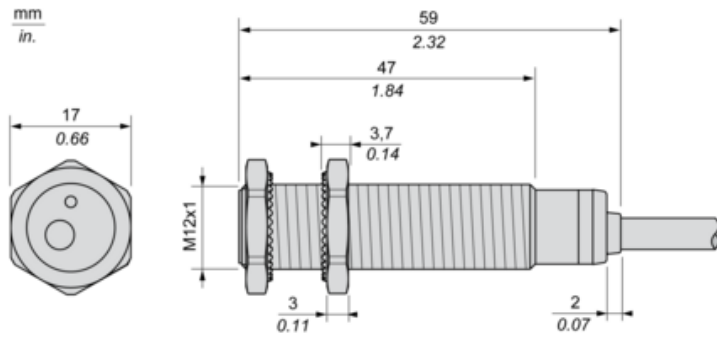
Offer Sustainability

Sustainable offer status	Green Premium product
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

Contractual warranty

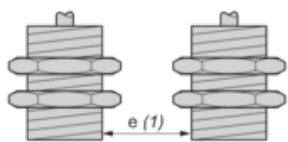
Warranty	18 months
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Dimensions



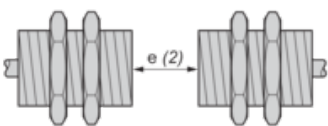
Minimum Mounting Distances

Side by side



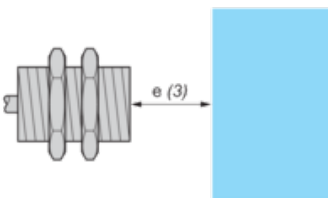
$e (1) \geq 4 \text{ mm}/0.16 \text{ in.}$

Face to face



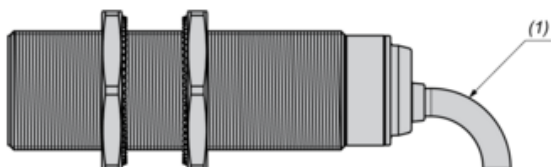
$e (2) \geq 24 \text{ mm}/0.94 \text{ in.}$

Facing a metal object



$e (3) \geq 6 \text{ mm}/0.24 \text{ in.}$

Mounting

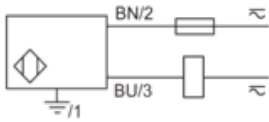


(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire AC or DC

NO output

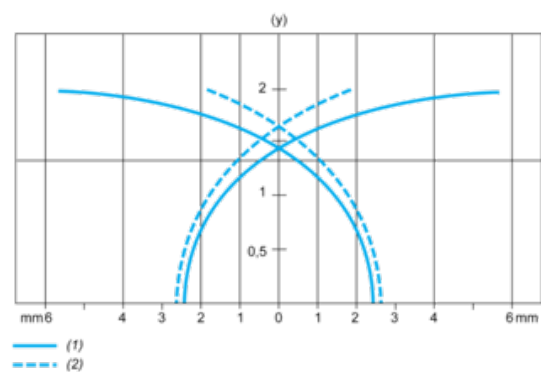


BU : Blue

BN : Brown

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

Product Life Status : **Commercialised**