



Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	2 m adjustable with teach push-button
Material	Plastic
Type of output signal	Analogue
Wiring technique	4-wire
Analogue output function	0...10 V
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.12...2 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
Thread type	M30 x 1.5
Supply voltage limits	14...28 V DC
Function available	Without synchronisation mode
[Sa] assured operating distance	0.12...2 m (teach mode)
Blind zone	0...120 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-8...8 °
Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Status LED	Setting-up assistance: 1 LED (dual colour) Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	80 mA
Maximum switching capacity	>= 1 kOhm overload and short-circuit protection
Setting-up	Slope selection using teach button
Maximum delay first up	720 ms
Maximum delay response	25 ms
Maximum delay recovery	25 ms
Marking	CE
Threaded length	45 mm
Height	35 mm
Width	35 mm
Depth	85 mm
Net weight	0.095 kg

Environment

Standards	IEC 60947-5-2
Product certifications	UL CCSAus
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4

Packing Units

Package 1 Weight	0.110 kg
Package 1 Height	0.410 dm
Package 1 width	1.300 dm
Package 1 Length	0.940 dm

Offer Sustainability

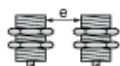
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Contractual warranty

Warranty	18 months
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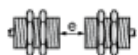
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face



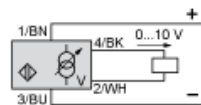
$e > 4 \times S_n$

Wiring Diagram

4-Wire Type



- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal



BN Brown
WH White
BU Blue
BK Black