



Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX8
Sensor design	Flat form 80 x 80 x 34
Detection system	Diffuse
[Sn] nominal sensing distance	3.28 ft (1 m) adjustable with remote teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring Technique	4-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.33...3.28 ft (0.1...1 m)
Beam angle	7 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	Valox
Front material	Epoxy
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.33...3.28 ft (0.1...1 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00...3.94 in (0...100 mm)
Transmission frequency	180 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Cylinder diameter 50.8 mm 3.28 ft (1 m)
Status LED	Setting-up assistance 1 LED dual colour) Supply on 1 LED green) Output state 1 LED yellow)
Current Consumption	60 mA
Maximum switching current	100 mA
Maximum voltage drop	1.5 V
Switching frequency	<= 70 Hz
Maximum delay first up	75 ms
Maximum delay response	15 ms
Maximum delay recovery	75 ms
Marking	CE
Height	3.15 in (80 mm)
Width	3.27 in (83 mm)
Depth	1.34 in (34 mm)
Net Weight	0.66 lb(US) (0.3 kg)

Environment

Standards	IEC 60947-5-2
Product Certifications	UL cCSAus
Ambient Air Temperature for Operation	32...158 °F (0...70 °C)
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Vibration resistance	+/-1 mm 10...55 Hz)IEC 60068-2-6
Shock resistance	30 gn in all 3 axes 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Ordering and shipping details

Category	22490-SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	3389119029957
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.16 in (0.41 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	5.20 in (13.2 cm)
Package 1 Weight	11.29 oz (320.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	13
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	10.29 lb(US) (4.666 kg)

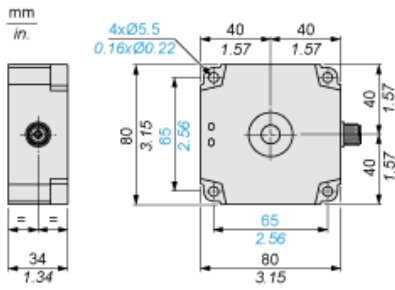
Offer Sustainability

Sustainable offer status	Green Premium product
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 Di-isodecyl 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
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

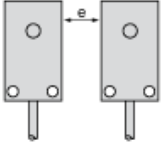
Warranty	18 months
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Dimensions



Minimum Mounting Distances

Side by side

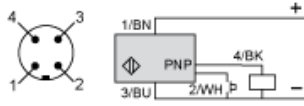


e : respect the distances indicated on the detection curves

Wiring Diagram

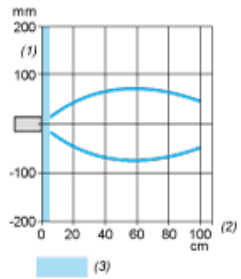
3-Wire Type

NO outputs, PNP



- (1) (+)
- (2) Teach input (WH)
- (3) (-)
- (4) Output
- BN Brown
- WH White
- BU Blue
- BK Black

Curves



- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.