



### Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	1.64 ft (0.5 m) adjustable by cabling
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring Technique	3-wire
Discrete output type	NPN
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Electrical connection	Cable, 6.56 ft (2 m)
[Sd] sensing range	0.17... 1.67 ft (0.051...0.508 m)
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

### Complementary

Enclosure Material	Valox
Front material	Epoxy
Thread type	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.17... 1.67 ft (0.051...0.508 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00...2.01 in (0...51 mm)
Transmission frequency	300 kHz
Repeat accuracy	0.7 %
Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Cylinder diameter 2.5 mm 0.49 ft (0.15 m)
Status LED	Supply on 1 LED green) Output state 1 LED yellow)
Current Consumption	40 mA
Maximum switching current	100 mA overload and short-circuit protection
Maximum voltage drop	1 V
Switching frequency	<= 40 Hz
Maximum delay first up	100 ms
Maximum delay response	10 ms
Maximum delay recovery	1000 ms
Marking	CE
Threaded length	1.73 in (44 mm)
Height	0.71 in (18 mm)
Width	0.71 in (18 mm)
Depth	2.52 in (64 mm)
Net Weight	0.22 lb(US) (0.1 kg)

## Environment

Standards	IEC 60947-5-2
Product Certifications	CCSAus UL
Ambient Air Temperature for Operation	-4...149 °F (-20...65 °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	03389119129220
Nbr. of units in pkg.	1
Package weight(Lbs)	0.5 lb(US) (0.23 kg)
Returnability	No
Country of origin	US

## Packing Units

Package 1 Height	0.71 in (1.801 cm)
Package 1 width	2.51 in (6.375 cm)
Package 1 Length	0.71 in (1.801 cm)

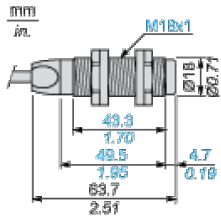
## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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## Dimensions

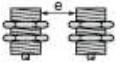


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Minimum Mounting Distances

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Side by side



e : respect the distances indicated on the detection curves

Face to face



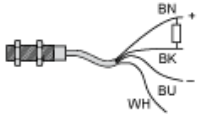
$e > 4 \times S_n$

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## Wiring Diagram

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NPN Output

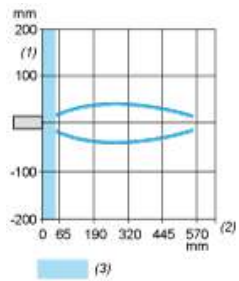


BN Brown  
WH White  
BU Blue  
BK Black

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Curves

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