



Main

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| Range of Product | Telemecanique Ultrasonic sensors XX |
| Sensor Type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XXV |
| Sensor design | Cylindrical M18 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 0.16 ft (0.05 m) fixed |
| Material | Metal |
| 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 | 0.01...0.16 ft (0.003...0.05 m) |
| Beam angle | 10 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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|---|--|
| Enclosure Material | Brass |
| Front material | Epoxy |
| Thread type | M18 x 1 |
| Supply voltage limits | 10...36 V DC |
| [Sa] assured operating distance | 0.01...0.16 ft (0.003...0.05 m) |
| Maximum differential travel | 0.12 in (3 mm) |
| Blind zone | 0.00...0.12 in (0...3 mm) |
| Transmission frequency | 360 kHz |
| Repeat accuracy | 1.5 % |
| Deviation angle from 90° of object to be detected | -8...8 ° |
| Minimum size of detected object | Cylinder diameter 2 mm 0.07 ft (0.02 m) |
| Status LED | Output state 1 LED yellow) |
| Current Consumption | 15 mA |
| Maximum switching current | 200 mA overload and short-circuit protection |
| Maximum voltage drop | 2 V |
| Switching frequency | <= 80 Hz |
| Maximum delay first up | 5 ms |
| Maximum delay response | 4 ms |
| Maximum delay recovery | 4 ms |
| Marking | CE |
| Threaded length | 2.01 in (51 mm) |
| Height | 0.71 in (18 mm) |
| Width | 0.71 in (18 mm) |
| Depth | 2.56 in (65 mm) |
| Net Weight | 0.24 lb(US) (0.11 kg) |

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Environment

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| Standards | IEC 60947-5-2 |
| Product Certifications | cULus |
| Ambient Air Temperature for Operation | 32...140 °F (0...60 °C) |
| Ambient Air Temperature for Storage | -40...176 °F (-40...80 °C) |
| Vibration resistance | +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance | 50 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

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|-----------------------|----------------------------------|
| Category | 22490-SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule | DS2 |
| GTIN | 3389119128032 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.44 oz (126.008 g) |
| Returnability | No |
| Country of origin | US |

Packing Units

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|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.61 in (4.1 cm) |
| Package 1 width | 3.74 in (9.5 cm) |
| Package 1 Length | 5.12 in (13 cm) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 44 |
| Package 2 Weight | 13.79 lb(US) (6.257 kg) |
| Package 2 Height | 11.81 in (30 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

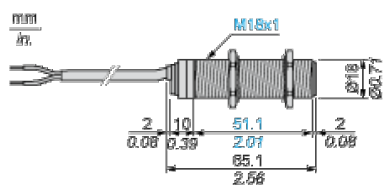
Offer Sustainability

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|----------------------------|---|
| 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 |

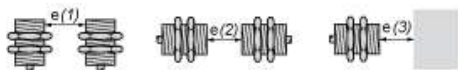
Contractual warranty

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| Warranty | 18 months |
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Dimensions



Minimum Mounting Distances



e(1) 25 mm

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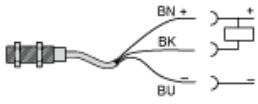
e(2) 700 mm

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e(3) 60 mm

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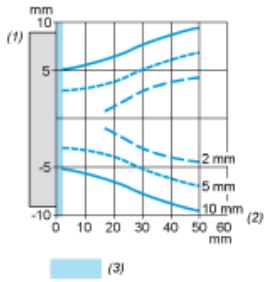
Wiring Diagram



BN Brown
BU Blue
BK Black

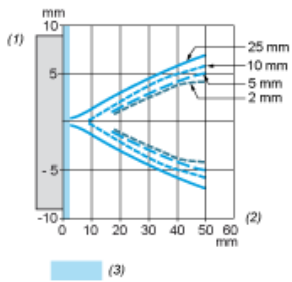
Curves

Square Object



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

Cylindrical Object



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