



Main

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|-------------------------------|---|
| Range of product | Telemecanique Ultrasonic sensors XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XXS |
| Sensor design | Cylindrical M18 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 1 M adjustable with remote teach push-button 1 M software with kit |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 1 NO or 1 NC programmable |
| Wiring technique | 5-wire |
| Discrete output type | PNP |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 5 pins |
| [Sd] sensing range | 0.105...1 M |
| IP degree of protection | IP65 conforming to IEC 60529 IP67 |

Complementary

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|---|---|
| Enclosure material | PBT |
| Front material | Epoxy Rubber Resin |
| Supply voltage limits | 10...30 V DC |
| Function available | With synchronisation mode Software configurable |
| [Sa] assured operating distance | 0.105...1 M (teach mode) |
| Maximum differential travel | 4 Mm |
| Blind zone | 105 Mm |
| Transmission frequency | 200 KHz |
| Repeat accuracy | 0.1 % |
| Deviation angle from 90° of object to be detected | -10...10 ° |
| Minimum size of detected object | Cylinder diameter 1 mm at 600 mm |
| Status LED | Output state: 1 LED (yellow) Echo state: 1 LED (green) |

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|---------------------------|---|
| Current consumption | 30 mA |
| Maximum switching current | 100 MA with overload and short-circuit protection |
| Maximum voltage drop | 2 V |
| Switching frequency | 11 Hz |
| Setting-up | Teach mode Configurator software |
| Maximum delay first up | 120 Ms |
| Maximum delay response | 45 Ms |
| Maximum delay recovery | 45 Ms |
| Marking | CE |
| Threaded length | 45 Mm |
| Height | 18 Mm |
| Width | 18 Mm |
| Depth | 64 Mm |
| Product weight | 0.033 Kg |


Environment

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|---------------------------------------|--|
| Standards | EN/IEC 60947-5-2 CSA C22.2 No 14 UL 508 |
| Product certifications | CULus EAC RCM E2 Ecolab |
| Ambient air temperature for operation | -25...70 °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

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 35.017 G |
| Package 1 Height | 4.1 Cm |
| Package 1 width | 6.4 Cm |
| Package 1 Length | 9.4 Cm |

Offer Sustainability

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

Product Life Status : **Commercialised**

Mouser Electronics

Authorized Distributor

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[XXS18P1PM12](#)