

VM18NPI0000Q

ultrasonic sensor cylindrical M18 - dual-level
Sn508mm - NO - 12..24VDC - M12

Product availability: Non-Stock - Not normally stocked in distribution facility



Main

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|-------------------------------|--|
| Range of product | Hyde Park |
| Sensor type | Ultrasonic sensor |
| Series name | Virtu VM18 |
| Device short name | VM18 |
| Sensor design | Cylindrical M18 |
| [Sn] nominal sensing distance | 20 in (508 mm) |
| Type of sensing window | Adjustable |
| Material | Plastic |
| Enclosure material | PBT |
| Front material | Glass epoxy |
| Type of output signal | Discrete |
| Discrete output function | 1 NO |
| ISO thread | M18 x 1 |
| Wiring technique | 4-wire |
| [Us] rated supply voltage | 12...24 V DC (overload and short-circuit protection) |
| Supply voltage limits | 10...28 V DC |
| Discrete output type | NPN |
| Electrical connection | 1 male connector M12 4 pins |
| Product specific application | Dual-level - pump-in latch |

Complementary

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|---------------------------------------|--|
| [Sd] sensing range | 2...20 in (50.8...508 mm) |
| [Sa] assured operating distance | 2...20 in (50.8...508 mm) with remote teach push-button |
| Blind zone | 0...2.01 in (0...51 mm) |
| Transmission frequency | 300 kHz |
| Repeat accuracy | 1.27 % |
| Beam angle | 5 ° |
| Minimum size of detected object | Cylinder diameter 2.5 mm - up to 200 mm sensing distance |
| Status LED | 1 LED - green - output not active |
| Current consumption | 40 mA |
| Maximum switching current | 100 mA (reverse polarity protection) |
| Resistance to electrostatic discharge | 8 kV (level 4) conforming to IEC 61000-4-2 |
| Height | 0.71 in (18 mm) |
| Width | 0.71 in (18 mm) |
| Depth | 0.71 in (18 mm) |
| Length | 3.06 in (77.62 mm) |
| Product weight | 0.07 lb(US) (0.033 kg) |

Environment

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|---------------------------|---------------------------|
| Standards | EN 60947 |
| Product certifications | UL |
| Marking | CE |
| NEMA degree of protection | NEMA 4X (indoor use only) |
| IP degree of protection | IP67 |

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|---------------------------------------|--|
| Ambient air temperature for operation | -22...158 °F (-30...70 °C) |
| Ambient air temperature for storage | -40...185 °F (-40...85 °C) |
| Relative humidity | 100 % without condensation |
| Vibration resistance | +/-1 mm conforming to IEC 60068-2-6 10...55 Hz |
| Shock resistance | 30 gn in all 3 axes 11 ms conforming to IEC 60068-2-27 |
| Resistance to electromagnetic fields | 9.14 V/yd (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 |

Ordering and shipping details

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|-----------------------|------------------------------------|
| Category | 22490 - SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule | DS2 |
| GTIN | 003389119062534 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.14000000000000001 |
| Returnability | N |
| Country of origin | US |

Offer Sustainability

| | |
|----------------------------|--|
| RoHS (date code: YYWW) | Will not be compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: |
| - - - - - Substance 1 | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and |
| - - - - - Substance 2 | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| - - - - - More information | For more information go to www.p65warnings.ca.gov |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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