



Main

| | |
|------------------------------|--|
| Range of Product | Hyde Park |
| Sensor Type | Ultrasonic sensor |
| Series name | Virtu VM18 |
| Device short name | VM18 |
| Sensor design | Cylindrical M18 |
| Type of sensing window | Adjustable |
| Material | Plastic |
| Enclosure Material | PBT |
| Front material | Glass epoxy |
| Type of output signal | Discrete |
| Discrete output function | 1 NO or 1 NC programmable |
| 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 | PNP |
| Electrical connection | Male connector M12 4 pins |
| Product Specific Application | - |

Complementary

| | |
|---------------------------------------|--|
| [Sn] nominal sensing distance | 20.00 in (508 mm) |
| [Sd] sensing range | 2.00...20.00 in (50.8...508 mm) |
| [Sa] assured operating distance | 2.00...20.00 in (50.8...508 mm) remote teach push-button |
| Blind zone | 0.00...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 |
| Current Consumption | 40 mA |
| Maximum switching current | 100 mA reverse polarity protection |
| Resistance to electrostatic discharge | 8 kV level 4 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

| | |
|---------------------------------------|----------------------------|
| Product Certifications | UL |
| Marking | CE |
| NEMA degree of protection | NEMA 4X indoor use only) |
| IP degree of protection | IP67 |
| 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 10...55 Hz)IEC 60068-2-6 |
| Shock resistance | 30 gn in all 3 axes 11 ms IEC 60068-2-27 |
| 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 | 785901685937 |
| Returnability | Yes |
| Country of origin | US |

Packing Units

| | |
|------------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.31 in (8.415 cm) |
| Package 1 Width | 0.50 in (1.27 cm) |
| Package 1 Length | 3.31 in (8.415 cm) |
| Package 1 Weight | 1.76 oz (49.895 g) |

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