



## Main

|                           |  |
|---------------------------|--|
| Range of Product          | Hyde Park  |
| Sensor Type               | Ultrasonic sensor                                  |
| Series name               | Virtu VM1  |
| Device short name         | VM1  |
| Sensor design             | Flat form + cylindrical M18                        |
| Type of sensing window    | Adjustable   |
| Material                  | Plastic  |
| Enclosure Material        | Valox  |
| Front material            | Glass epoxy  |
| Type of output signal     | Analog   |
| ISO thread                | M18 x 1  |
| Wiring Technique          | 4-wire   |
| [Us] rated supply voltage | 15...24 V DC overload and short-circuit protection |
| Supply voltage limits     | 13...28 V DC                                       |
| Analogue output range     | 0...10 V autoslope                                 |
| Electrical connection     | Male connector M12 4 pins                          |

## Complementary

|                                 |  |
|---------------------------------|--|
| [Sn] nominal sensing distance   | 20.00 in (508 mm)  |
| [Sd] sensing range              | 2.00...20.00 in (50.8...508 mm)                          |
| Blind zone                      | 2.01 in (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       | 40 mA reverse polarity protection                        |
| Height                          | 1.72 in (43.7 mm)  |
| Width                           | 0.7 in (18 mm)   |
| Depth                           | 1.72 in (43.7 mm)  |
| Length                          | 2.58 in (65.61 mm)                                       |
| Net Weight                      | 0.073 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  | 9.1 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          | US10DS222490   |
| Discount Schedule | 0DS2           |
| GTIN              | 03389119065184 |
| Returnability     | No             |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| 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         | Not applicable, out of EU RoHS legal scope  |

## Contractual warranty

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