



## 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                          |
| 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 |
| Status LED                            | Off when object is within range 1 LED green)             |
| Current Consumption                   | 40 mA                                                    |
| Maximum switching current             | 40 mA reverse polarity protection                        |
| Resistance to electrostatic discharge | 8 kV level 4 IEC 61000-4-2                               |
| Height                                | 1.72 in (43.7 mm)                                        |
| Width                                 | 0.71 in (18 mm)                                          |
| Depth                                 | 1.72 in (43.7 mm)                                        |
| Length                                | 2.58 in (65.61 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              | 785901546795                     |
| 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             | 1.92 oz (54.431 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

## Contractual warranty

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