

## Main

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Range of product              | Hyde Park                                            |
| Sensor type                   | Ultrasonic sensor                                    |
| Series name                   | Virtu VM1                                            |
| Device short name             | VM1                                                  |
| Sensor design                 | Flat form + cylindrical M18                          |
| [Sn] nominal sensing distance | 20 in (508 mm)                                       |
| 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         | 4...20 mA autoslope                                  |
| Electrical connection         | 1 male connector M12 4 pins                          |
| Product specific application  | -                                                    |

## Complementary

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| [Sd] sensing range              | 2...20 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                           | 0.71 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 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               |

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Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| WARNING: This product can expose you to chemicals including:                                                               | WARNING: This product can expose you to chemicals including:                                                               |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | 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. | 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>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

Contractual warranty

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