

### 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     | 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                        |

### 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                          | 0.71 in (18 mm)                                          |
| Width                           | 0.71 in (18 mm)                                          |
| Depth                           | 0.71 in (18 mm)                                          |
| Length                          | 3.06 in (77.62 mm)                                       |
| Net 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                  | 03389119062381                   |
| Nbr. of units in pkg. | 1                                |
| Package weight(Lbs)   | 0.14 lb(US) (0.06 kg)            |
| Returnability         | No                               |
| Country of origin     | US                               |

### 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> |
| EU RoHS Directive         | Not applicable, out of EU RoHS legal scope                                                                                                                                                                                                                                                                                                                                        |

### Contractual warranty

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

# Mouser Electronics

Authorized Distributor

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