

# VM1PNCQ

ultrasonic sensor flat form + M18 - Sn508mm - NC - 12..24VDC - M12



## 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 | 20.00 in (508 mm)                                  |
| Type of sensing window        | Adjustable                                         |
| Material                      | Plastic                                            |
| Enclosure material            | Valox                                              |
| Front material                | Glass epoxy                                        |
| Type of output signal         | Discrete                                           |
| Discrete output function      | 1 NC                                               |
| 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         | 1 male connector M12 4 pins                        |
| Product specific application  | -                                                  |

## Complementary

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| [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                            | Output not active 1 LED green)                           |
| Current consumption                   | 40 mA                                                    |
| Maximum switching current             | 100 mA reverse polarity protection                       |
| Resistance to electrostatic discharge | 8 kV level 4 IEC 61000-4-2                               |
| Maximum Height                        | 1.72 in (43.7 mm)                                        |
| Maximum Width                         | 0.71 in (18 mm)                                          |
| Maximum Depth                         | 1.72 in (43.7 mm)                                        |
| Length                                | 2.35 in (59.69 mm)                                       |
| Net Weight                            | 0.07 lb(US) (0.033 kg)                                   |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| Standards                             | EN 60947                   |
| 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                | 00785901797975                      |
| Package weight(Lbs) | 1 lb(US) (0.45 kg)                  |
| Returnability       | Yes                                 |
| Country of origin   | US                                  |

### Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                        |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP) and Diisononyl phthalate (DINP) which is known to the State of California to cause Carcinogen and 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 |
|----------|-----------|