

# VM1PNCQ

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

Product availability: Non-Stock - Not normally stocked in distribution facility



## 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         | 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...20 in (50.8...508 mm)                                |
| [Sa] assured operating distance       | 2...20 in (50.8...508 mm) with remote teach push-button  |
| Blind zone                            | 0...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                            | 1 LED - green - output not active                        |
| Current consumption                   | 40 mA  |
| Maximum switching current             | 100 mA (reverse polarity protection)                     |
| Resistance to electrostatic discharge | 8 kV (level 4) conforming to 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                                | 2.35 in (59.69 mm)                                       |
| Product 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 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               |

### Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22490 - SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule     | DS2                                |
| GTIN                  | 00785901797975                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.13                               |
| Returnability         | N                                  |
| Country of origin     | US                                 |

### Offer Sustainability

|                                  |  |
|----------------------------------|--|
| RoHS (date code: YYWW)           | Compliant - since 1150 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference contains SVHC above the threshold - Go to CaP for more details-<br><a href="#">Go to CaP for more details</a>            |
| Product end of life instructions | Available  |
| California proposition 65        | WARNING: This product can expose you to chemicals including:   |
| ----- Substance 1                | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and  |
| ----- Substance 2                | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.         |
| ----- More information           | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

### Contractual warranty

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

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