



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 | Discrete |
| Discrete output function | 1 NO |
| 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 | Male connector M12 4 pins |
| Product Specific Application | Dual-level - pump-in latch |

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 |
| Status LED | Output not active 1 LED green) |
| Current Consumption | 40 mA |
| Maximum switching current | 100 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 | 2.35 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 | US10DS222490 |
| Discount Schedule | 0DS2 |
| GTIN | 03389119064965 |
| Returnability | No |

Packing Units

| | |
|------------------------------|-----|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

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 www.P65Warnings.ca.gov |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |

Contractual warranty

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