



**THE DATASHEET OF  
XS612B1MBU20**





## 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     | 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     | 0...10 V autoslope                                 |
| Electrical connection     | 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                          | 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)                                       |
| 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                  | 3389119065252                    |
| Nbr. of units in pkg. | 1                                |
| Package weight(Lbs)   | 12.80 oz (362.874 g)             |
| Returnability         | No                               |
| Country of origin     | US                               |

## Packing Units

|                        |                    |
|------------------------|--------------------|
| Unit Type of Package 1 | PCE                |
| Package 1 Height       | 3.31 in (8.415 cm) |
| Package 1 width        | 0.50 in (1.27 cm)  |
| Package 1 Length       | 3.31 in (8.415 cm) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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> |
| 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 |
|----------|-----------|

## Looking for pricing, stock, or lifecycle information?

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 [Manufacturer](#) Information

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
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