



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	NPN
Electrical connection	Male connector M12 4 pins
Product Specific Application	-

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	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

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	3389119063968
Nbr. of units in pkg.	1
Package weight(Lbs)	2.08 oz (58.967 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

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
----------	-----------