

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	-

Complementary

[Sn] nominal sensing distance	20.0000000000 in (508 mm)
[Sd] sensing range	2.0000000000...20.0000000000 in (50.8...508 mm)
[Sa] assured operating distance	2.0000000000...20.0000000000 in (50.8...508 mm) remote teach push-button
Blind zone	0.0000000000...2.008 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
Height	1.7 in (43.7 mm)
Width	0.7 in (18 mm)
Depth	1.7 in (43.7 mm)
Length	2.35 in (59.69 mm)
Net Weight	0.073 lb(US) (0.033 kg)

Environment

Standards	IEC 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	9.1 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	785901439455
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.50 in (3.81 cm)
Package 1 Width	3.40 in (8.636 cm)
Package 1 Length	3.40 in (8.636 cm)
Package 1 Weight	2.080 oz (58.967 g)

Offer Sustainability

SCIP Number	435317c3-e86a-47b7-acde-88c832f96adb
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
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 Yes

Contractual warranty

Warranty	18 months
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