

VM1VA1000Q

Hyde Park, Ultrasonic sensor, analog, voltage (V), 18 mm snout dual mount, 15 24 V DC



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	20.0000000000 in (508 mm)
[Sd] sensing range	2.0000000000...20.0000000000 in (50.8...508 mm)
Blind zone	2.008 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	1.7 in (43.7 mm)
Width	0.7 in (18 mm)
Depth	1.7 in (43.7 mm)
Length	2.58 in (65.61 mm)
Net Weight	0.073 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	9.1 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	03389119065184
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
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months
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