

VM1VAQ

Hyde Park, ultrasonic sensor flat form + M18,
Sn508mm, 0...10 V, M12



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 with 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
Product specific application	-

Complementary

[Sn] nominal sensing distance	508 mm
[Sd] sensing range	50.8...508 mm
[Sa] assured operating distance	50.8...508 mm remote teach push-button
Blind zone	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	Off when object is within range: 1 LED (green)
Current consumption	40 mA
Maximum switching current	40 mA with reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Height	43.7 mm
Width	18 mm
Depth	43.7 mm
Length	65.61 mm
Net weight	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	-30...70 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	100 % without condensation

Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.415 cm
Package 1 Width	1.27 cm
Package 1 Length	8.415 cm
Package 1 Weight	54.431 g

Offer Sustainability

Sustainable offer status	Green Premium product
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End of Life Information
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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