

## Product data sheet

## Characteristics

## VM1CA1000Q

Hyde Park, Ultrasonic sensor, analog, current (mA), 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 with overload and short-circuit protection
Supply voltage limits	13...28 V DC
Analogue output range	4...20 mA 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
Blind zone	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 with reverse polarity protection
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	362.874 g

## Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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