



## Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Virtu VM18
Device short name	VM18
Sensor design	Cylindrical M18
Type of sensing window	Adjustable
Material	Plastic
Enclosure material	PBT
Front material	Glass epoxy
Type of output signal	Discrete
Discrete output function	1 NO
ISO thread	M18 x 1
Wiring technique	4-wire
[Us] rated supply voltage	12...24 V DC with 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	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	Output not active: 1 LED (green)
Current consumption	40 mA
Maximum switching current	100 mA with reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Height	18 mm
Width	18 mm
Depth	18 mm
Length	77.62 mm
Net weight	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	-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	9.652 cm
Package 1 Width	6.604 cm
Package 1 Length	4.318 cm
Package 1 Weight	49.895 g

### Offer Sustainability

Sustainable offer status	Green Premium product
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 <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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