

# VM1PTOQ

ultrasonic sensor flat form + M18 - Sn508mm - NO/NC - 12..24VDC - M12



Product availability: Non-Stock - Not normally stocked in distribution facility



## Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Virtu VM1
Device short name	VM1
Sensor design	Flat form + cylindrical M18
[Sn] nominal sensing distance	20.00 in (508 mm)
Type of sensing window	Adjustable
Material	Plastic
Enclosure material	Valox
Front material	Glass epoxy
Type of output signal	Discrete
Discrete output function	1 NO or 1 NC programmable
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	1 male connector M12 4 pins
Product specific application	-

## Complementary

[Sd] sensing range	2.00...20.00 in (50.8...508 mm)
[Sa] assured operating distance	2.00...20.00 in (50.8...508 mm) remote teach push-button
Blind zone	0.00...2.01 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
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	1.72 in (43.7 mm)
Width	0.71 in (18 mm)
Depth	1.72 in (43.7 mm)
Length	2.35 in (59.69 mm)
Net weight	0.07 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	9.14 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	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	00785901624165
Package weight(Lbs)	0.06 kg (0.13 lb(US))
Returnability	No
Country of origin	US

### Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP) and Diisononyl phthalate (DINP) which is known to the State of California to cause Carcinogen and Reproductive harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

### Contractual warranty

Warranty	18 months
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