Product data sheet
Characteristics

VM18CAQ
Hyde Park, ultrasonic sensor cylindrical M18, Sn508mm, 4...20 mA, M12



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	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	4...20 mA autoslope
Electrical connection	Male connector M12 4 pins
Product Specific Application	-

Complementary

[Sn] nominal sensing distance	20.00 in (508 mm)
[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
Status LED	Off when object is within range 1 LED green)
Current Consumption	40 mA
Maximum switching current	40 mA reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Height	0.71 in (18 mm)
Width	0.71 in (18 mm)
Depth	0.71 in (18 mm)
Length	3.06 in (77.62 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)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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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	785901821281
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.31 in (8.415 cm)
Package 1 Width	0.50 in (1.27 cm)
Package 1 Length	3.31 in (8.415 cm)
Package 1 Weight	8.00 oz (226.796 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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months