

# Product data sheet

## Characteristics

# VM18NPI0000Q

ultrasonic sensor cylindrical M18 - dual-level  
Sn508mm - NO - 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 VM18
Device short name	VM18
Sensor design	Cylindrical M18
[Sn] nominal sensing distance	20 in (508 mm)
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 (overload and short-circuit protection)
Supply voltage limits	10...28 V DC
Discrete output type	NPN
Electrical connection	1 male connector M12 4 pins
Product specific application	Dual-level - pump-in latch

### Complementary

[Sd] sensing range	2...20 in (50.8...508 mm)
[Sa] assured operating distance	2...20 in (50.8...508 mm) with remote teach push-button
Blind zone	0...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	1 LED - green - output not active
Current consumption	40 mA
Maximum switching current	100 mA (reverse polarity protection)
Resistance to electrostatic discharge	8 kV (level 4) conforming to 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)
Product weight	0.07 lb(US) (0.033 kg)

### Environment

Standards	EN 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	-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 conforming to IEC 60068-2-6 10...55 Hz
Shock resistance	30 gn in all 3 axes 11 ms conforming to IEC 60068-2-27
Resistance to electromagnetic fields	9.14 V/yd (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

### Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	003389119062534
Nbr. of units in pkg.	1
Package weight(Lbs)	0.14000000000000001
Returnability	N
Country of origin	US

### Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

### Contractual warranty

Warranty period	18 months
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