



## VM18PNOQ

ultrasonic sensor cylindrical M18 - Sn508mm - NO - 12..24VDC - M12



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### Main

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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	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	PNP
Electrical connection	1 male connector M12 4 pins
Product specific application	-

### Complementary

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[Sd] sensing range	50.8...508 mm
[Sa] assured operating distance	50.8...508 mm with 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	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	18 mm
Width	18 mm
Depth	18 mm
Length	77.62 mm

**Product weight** 0.033 kg

**Environment** - Hide

<b>Standards</b>	EN 60947
<b>Product certifications</b>	UL
<b>Marking</b>	CE
<b>NEMA degree of protection</b>	NEMA 4X (indoor use only)
<b>IP degree of protection</b>	IP67
<b>Ambient air temperature for operation</b>	-30...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Relative humidity</b>	100 % without condensation
<b>Vibration resistance</b>	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
<b>Shock resistance</b>	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
<b>Resistance to electromagnetic fields</b>	10 V/m (level 3) conforming to IEC 61000-4-3
<b>Resistance to fast transients</b>	1 kV (level 3) conforming to IEC 61000-4-4

**Contractual warranty** - Hide

**Period** 18 months