Product Datasheet
Characteristic

VM18PTOQ

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

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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 or 1 NC programmable
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

[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
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

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

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 1150 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - Go to CaP for more details
Product end of life instructions	Available