Product data sheet
Characteristics

XXSC956A4V0
Ultrasonic sensors XX, ultrasonic sensor XXS, Ø 30 mm, Sn 2 m, PBT, M12



Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Sensor name	XXS
Material	PBT (polybutylene terephthalate)
Sensor design	Ø 30 mm
Product Specific Application	Analog output
Type of output signal	Analogue
Wiring Technique	4-wire
[Us] rated supply voltage	15...24 V DC reverse polarity protection
Electrical connection	1 male connector M12 4 pins
[Sd] sensing range	0.39…6.56 ft (0.12…2 m)
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure Material	ULTEM
Front material	Silicone
ISO thread	M30 x 1.5
Supply voltage limits	10…28 V DC
Analogue output range	Voltage
[Sn] nominal sensing distance	6.56 ft (2 m)
Type of sensing window	Adjustable
[Sa] assured operating distance	0.39…6.56 ft (0.12…2 m) configurator software)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	4.72 in (120 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-8…8 °
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 635 mm sensing distance
Status LED	Output state 2 LEDs green/red (flashing)) Setting-up assistance 2 LEDs green/red (flashing)) Distance indication 2 LEDs yellow)
Current Consumption	100 mA
Maximum switching current	100 mA overload and short-circuit protection
Maximum switching capacity	1 kOhm overload and short-circuit protection
Maximum delay first up	720 ms
Maximum delay recovery	1000 ms
Marking	CE
Height	1.18 in (30 mm)
Width	1.18 in (30 mm)
Depth	1.18 in (30 mm)
Length	3.78 in (96 mm)
CAD overall height	3.78 in (95.99 mm)
CAD overall width	1.35 in (34.17 mm)
CAD overall depth	1.35 in (34.17 mm)
Net Weight	0.20 lb(US) (0.09 kg)

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Environment

Standards	IEC 60947-5-2
Product Certifications	UL
NEMA degree of protection	NEMA 4X indoor use only)
Ambient Air Temperature for Operation	32…122 °F (0…50 °C)
Ambient Air Temperature for Storage	-40…176 °F (-40…80 °C)
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 electrostatic discharge	8 kV level 4 IEC 61000-4-2
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	3389119127905
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.20 in (13.208 cm)
Package 1 Width	3.90 in (9.906 cm)
Package 1 Length	2.80 in (7.112 cm)
Package 1 Weight	4.80 oz (136.078 g)

Offer Sustainability

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
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months