Product data sheet
Characteristics

SM956A100000
Hyde Park, ultrasonic sensor cylindrical M30, Sn1m, 0...10 V, M12



Main

Range of Product	Hyde Park
Sensor Type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM956
Sensor design	Cylindrical M30
Type of sensing window	Adjustable
Material	Plastic
Enclosure Material	ULTEM
Front material	Silicone rubber
Type of output signal	Analog
ISO thread	M30 x 1.5
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	0...10 V inverse
Electrical connection	Male connector M12 4 pins
Product Specific Application	-

Complementary

[Sn] nominal sensing distance	3.28 ft (1 m)
[Sd] sensing range	0.17…3.28 ft (0.0508…1 m)
[Sa] assured operating distance	0.17…3.28 ft (0.0508…1 m) teach push-button
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00…2.01 in (0…51 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Beam angle	10 °
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 305 mm sensing distance
Current Consumption	80 mA
Maximum switching current	60 mA reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Height	1.18 in (30 mm)
Width	1.37 in (34.7 mm)
Depth	1.18 in (30 mm)
Length	3.78 in (96 mm)
Net Weight	0.57 lb(US) (0.26 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	32…122 °F (0…50 °C)
Ambient Air Temperature for Storage	-4…176 °F (-20…80 °C)

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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	3389119121316
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.80 in (4.572 cm)
Package 1 Width	3.90 in (9.906 cm)
Package 1 Length	5.30 in (13.462 cm)
Package 1 Weight	4.16 oz (117.934 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
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