Product data sheet
Characteristics

SM956A830000
Hyde Park, ultrasonic sensor cylindrical M30, Sn8m, 4...20 mA, 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	Glass epoxy
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	4...20 mA direct
Electrical connection	Male connector M12 4 pins
Product Specific Application	-

Complementary

[Sn] nominal sensing distance	26.25 ft (8 m)
[Sd] sensing range	0.67…26.25 ft (0.203…8 m)
[Sa] assured operating distance	0.67…26.25 ft (0.203…8 m) teach push-button
Maximum differential travel	0.50 in (12.7 mm)
Blind zone	0.00…7.99 in (0…203 mm)
Transmission frequency	75 kHz
Repeat accuracy	2.54 %
Beam angle	10 °
Minimum size of detected object	Cylinder diameter 50.8 mm - up to 4572 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	1.70 in (43.18 mm)
Depth	1.18 in (30 mm)
Length	4.62 in (117.3 mm)
Net Weight	1.98 lb(US) (0.9 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	-4…140 °F (-20…60 °C)
Ambient Air Temperature for Storage	-4…176 °F (-20…80 °C)
Relative humidity	100 % without condensation

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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	785901658733
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.50 in (6.35 cm)
Package 1 Width	3.90 in (9.906 cm)
Package 1 Length	5.30 in (13.462 cm)
Package 1 Weight	6.72 oz (190.509 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