

# Product data sheet

## Characteristics

# SM950A420000

Hyde Park, ultrasonic sensor cylindrical M30,  
Sn2m, NO/NC, 12...24 VDC, M12



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 557.00 USD



### Main

Range of Product	Hyde Park
Sensor Type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM950
Sensor design	Cylindrical M30
[Sn] nominal sensing distance	6.56 Ft (2 m)
Type of sensing window	Adjustable
Material	Plastic
Enclosure Material	ULTEM
Front material	Silicone rubber
Type of output signal	Discrete
Discrete output function	1 NO or 1 NC programmable
ISO thread	M30 x 1.5
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	NPN
Electrical connection	1 male connector M12 4 pins
Product Specific Application	-

### Complementary

[Sd] sensing range	0.39...6.56 Ft (0.12...2 m)
[Sa] assured operating distance	0.39...6.56 Ft (0.12...2 m) teach push-button
Maximum differential travel	0.10 In (2.5 mm)
Blind zone	0.00...4.72 In (0...120 mm)
Transmission frequency	200 KHz
Repeat accuracy	0.87 %
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 305 mm sensing distance
Current Consumption	100 mA

Maximum switching current	100 MA reverse polarity protection
Resistance to electrostatic discharge	8 KV level 4 IEC 61000-4-2
Maximum Height	1.18 In (30 mm)
Maximum Width	1.37 In (34.7 mm)
Maximum 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)
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	03389119117791
Nbr. of units in pkg.	1
Package weight(Lbs)	4.16 Oz (117.934 g)
Returnability	No
Country of origin	US

## Packing Units

Unit Type of Package 1	PCE
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)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

**Contractual warranty**

Warranty 18 months

**Product Life Status :** Commercialised