

# SM950A100000

Hyde Park, ultrasonic sensor cylindrical M30,  
Sn1m, NO, 12...24 VDC, M12



## Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM950
Sensor design	Cylindrical M30
Type of sensing window	Adjustable
Material	Plastic
Enclosure material	ULTEM
Front material	Silicone rubber
Type of output signal	Discrete
Discrete output function	1 NO
ISO thread	M30 x 1.5
Wiring technique	4-wire
[Us] rated supply voltage	12...24 V DC with overload and short-circuit protection
Supply voltage limits	10...28 V DC
Discrete output type	PNP/NPN
Electrical connection	Male connector M12 4 pins
Product specific application	-

## Complementary

[Sn] nominal sensing distance	1 m
[Sd] sensing range	0.0508...1 m
[Sa] assured operating distance	0.0508...1 m teach push-button
Maximum differential travel	2.5 mm
Blind zone	0...51 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 with reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Height	30 mm
Width	34.7 mm
Depth	30 mm
Length	96 mm
Net weight	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	0...50 °C
Ambient air temperature for storage	-20...80 °C
Relative humidity	100 % without condensation

Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electromagnetic fields	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

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.572 cm
Package 1 Width	9.906 cm
Package 1 Length	13.462 cm
Package 1 Weight	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

### Contractual warranty

Warranty	18 months
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