



### Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM956
Sensor design	Cylindrical M30
[Sn] nominal sensing distance	8 m
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 autoslope
Electrical connection	1 male connector M12 4 pins
Product specific application	-

### Complementary

[Sd] sensing range	0.203...8 m
[Sa] assured operating distance	0.203...8 m with teach pushbutton
Maximum differential travel	12.7 mm
Blind zone	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) conforming to IEC 61000-4-2
Height	30 mm
Width	43.18 mm
Depth	30 mm
Length	117.3 mm
Product weight	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	-20...60 °C
Ambient air temperature for storage	-20...80 °C

Relative humidity	100 % without condensation
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 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

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