Product data sheet
Characteristics

SM952A400000
ultrasonic sensor cylindrical M30 - dual-level Sn2m - NO - 12..24VDC - M12

Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 900
Device short name	SM952
Sensor design	Cylindrical M30
[Sn] nominal sensing distance	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
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	PNP/NPN
Electrical connection	1 male connector M12 4 pins
Product specific application	Dual-level - pump-out latch

Complementary

[Sd] sensing range	0.12...2 m
[Sa] assured operating distance	0.12...2 m with teach pushbutton
Maximum differential travel	2.5 mm
Blind zone	0...120 mm
Transmission frequency	200 kHz
Repeat accuracy	0.87 %
Beam angle	10 °
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) conforming to IEC 61000-4-2
Height	30 mm
Width	34.7 mm
Depth	30 mm
Length	96 mm
Product 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 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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