

Product data sheet

Characteristics

SM900A110000

ultrasonic sensor cylindrical M30 - Sn1m - NC -
12..24VDC - cable 3m

Main

| | |
|-------------------------------|---|
| Range of product | Hyde Park |
| Sensor type | Ultrasonic sensor |
| Series name | Superprox 900 |
| Device short name | SM900 |
| Sensor design | Cylindrical M30 |
| [Sn] nominal sensing distance | 1 m |
| Type of sensing window | Adjustable |
| Material | Plastic |
| Enclosure material | ULTEM |
| Front material | Silicone rubber |
| Type of output signal | Discrete |
| Discrete output function | 1 NC |
| 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 | Cable 3 m |
| Product specific application | - |

Complementary

| | |
|---------------------------------------|--|
| [Sd] sensing range | 0.0508...1 m |
| [Sa] assured operating distance | 0.0508...1 m with teach pushbutton |
| 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 (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 | 95 mm |
| Product weight | 0.6 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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