# *Product datasheet*
## *Characteristics*

# SM956A132400S



## Main

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|---|---|
| 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 | 3.28 ft (1 m) |
| Type of sensing window | Adjustable |
| Material | Stainless steel |
| Enclosure material | Stainless steel 303 |
| Front material | Silicone rubber |
| 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 direct |
| Electrical connection | 1 male connector M12 4 pins |
| Product specific application | Analog output |

## Complementary

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|---|---|
| [Sd] sensing range | 0.17...3.28 ft (0.0508...1 m) |
| Maximum differential travel | 0.1 in (2.5 mm) |
| Blind zone | 2.01 in (51 mm) |
| Transmission frequency | 200 kHz |
| Repeat accuracy | 0.9 % |
| Beam angle | 10 ° |
| Minimum size of detected object | Cylinder diameter 1.6 mm - up to 305 mm sensing distance |
| Current consumption | 80 mA |
| Maximum switching current | 60 mA (reverse polarity protection) |
| Height | 1.18 in (30 mm) |
| Width | 1.37 in (34.7 mm) |
| Depth | 1.18 in (30 mm) |
| Length | 3.78 in (96 mm) |
| Product weight | 0.6 lb(US) (0.27 kg) |

## Environment

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|---|---|
| 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 conforming to IEC 60068-2-6 10...55 Hz |
| shock resistance | 30 gn in all 3 axes 11 ms conforming to IEC 60068-2-27 |
| resistance to electromagnetic fields | 9.14 V/yd (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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## Contractual warranty

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| Warranty period | 18 months |