



### Main

|                              |   |
|------------------------------|---|
| Range of product             | Hyde Park   |
| Sensor type                  | Ultrasonic sensor                                       |
| Series name                  | Superprox 900   |
| Device short name            | SM956   |
| Sensor design                | Cylindrical M30   |
| Type of sensing window       | Adjustable  |
| Material                     | Plastic   |
| Enclosure material           | ULTEM   |
| Front material               | Glass epoxy   |
| Type of output signal        | Analogue  |
| ISO thread                   | M30 x 1.5   |
| Wiring technique             | 4-wire  |
| [Us] rated supply voltage    | 15...24 V DC with overload and short-circuit protection |
| Supply voltage limits        | 13...28 V DC  |
| Analogue output range        | 4...20 mA autoslope                                     |
| Electrical connection        | Male connector M12 4 pins                               |
| Product specific application | Analog output   |

### Complementary

|                                 |  |
|---------------------------------|--|
| [Sn] nominal sensing distance   | 4 m  |
| [Sd] sensing range              | 0.3...4 m  |
| Maximum differential travel     | 2.5 mm   |
| Blind zone                      | 203 mm   |
| Transmission frequency          | 75 kHz   |
| 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 with reverse polarity protection                   |
| Height                          | 30 mm  |
| Width                           | 43.18 mm   |
| Depth                           | 30 mm  |
| Length                          | 117.3 mm   |
| Net 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 (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             | 36.287 g  |

### Offer Sustainability

|  |   |
|--|---|
| 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 |
|----------|-----------|