



## 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 | 3.28 ft (1 m)                                      |
| Type of sensing window        | Adjustable   |
| Material                      | Plastic  |
| Enclosure Material            | ULTEM  |
| 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

|                                 |  |
|---------------------------------|--|
| [Sd] sensing range              | 0.17...3.28 ft (0.0508... 1 m)                           |
| Maximum differential travel     | 0.10 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)  |
| Net Weight                      | 0.57 lb(US) (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 | 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 10...55 Hz)IEC 60068-2-6         |
| Shock resistance                      | 30 gn in all 3 axes 11 ms IEC 60068-2-27 |

|                                      |   |
|--------------------------------------|---|
| Resistance to electromagnetic fields | 9.14 V/m (10 V/m) level 3 IEC 61000-4-3 |
| Resistance to fast transients        | 1 kV level 3 IEC 61000-4-4              |

### Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22490 - SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule     | DS2                                |
| GTIN                  | 3389119122818                      |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 4.16 oz (117.934 g)                |
| Returnability         | No                                 |
| Country of origin     | US                                 |

### Packing Units

|                        |                     |
|------------------------|---------------------|
| Unit Type of Package 1 | PCE                 |
| Package 1 Height       | 1.80 in (4.572 cm)  |
| Package 1 width        | 3.90 in (9.906 cm)  |
| Package 1 Length       | 5.30 in (13.462 cm) |

### 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> |
| REACH Regulation          | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive         | Not applicable, out of EU RoHS legal scope  |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Mouser Electronics

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