

# SM956A133000S

Hyde Park, Ultrasonic sensor, analog, current (mA), 30 mm barrel, 15 24 V DC



## 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                     | 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 with overload and short-circuit protection |
| Supply voltage limits        | 13...28 V DC                                            |
| Analogue output range        | 4...20 mA direct                                        |
| Electrical connection        | Male connector M12 4 pins                               |
| Product specific application | Analog output                                           |

## Complementary

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| [Sn] nominal sensing distance   | 1 m                                                      |
| [Sd] sensing range              | 0.0508...1 m                                             |
| Maximum differential travel     | 2.5 mm                                                   |
| Blind zone                      | 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 with reverse polarity protection                   |
| Height                          | 30 mm                                                    |
| Width                           | 34.7 mm                                                  |
| Depth                           | 30 mm                                                    |
| Length                          | 96 mm                                                    |
| Net weight                      | 0.27 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 (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             | 272.155 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 |
|----------|-----------|