*Product datasheet*
*Characteristics*

# SC650AB00S

Ultrasonic sensor - discrete - 18 mm barrel - 12-24 V DC

## Main

| | |
|---|---|
| Range of product | Hyde Park |
| Sensor type | Ultrasonic sensor |
| Series name | Superprox + |
| Device short name | SC650 |
| Sensor design | Cylindrical M18 |
| [Sn] nominal sensing distance | 254 mm |
| Type of sensing window | Configurable |
| Material | Stainless steel |
| Enclosure material | Stainless steel 303 |
| Front material | Silicone rubber |
| Type of output signal | Discrete |
| ISO thread | M18 x 1 |
| Wiring technique | 4-wire |
| [Us] rated supply voltage | 12...24 V DC (overload and short-circuit protection) |
| Supply voltage limits | 10...28 V DC |
| Electrical connection | 1 male connector M12 4 pins |
| Product specific application | Discrete proximity |

## Complementary

| | |
|---|---|
| Maximum differential travel | 0.35 mm |
| Blind zone | 19 mm |
| Transmission frequency | 500 kHz |
| Repeat accuracy | 0.07 % |
| Beam angle | 7 ° |
| Minimum size of detected object | Cylinder diameter 1.59 mm - up to 76.2 mm sensing distance |
| Current consumption | 60 mA |
| Maximum switching current | 100 mA (reverse polarity protection) |
| Height | 18 mm |
| Width | 18 mm |
| Depth | 18 mm |
| Length | 73.91 mm |
| Product weight | 0.033 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...60 °C |
| Ambient air temperature for storage | -40...100 °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 |