



Main

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| Range of Product | Hyde Park |
| Sensor Type | Ultrasonic sensor |
| Series name | Superprox 600 |
| Device short name | SM650 |
| Sensor design | Cylindrical M18 |
| Type of sensing window | Fixed |
| Material | Stainless steel |
| Enclosure Material | Stainless steel 303 |
| Front material | Silicone rubber |
| Type of output signal | Discrete |
| Discrete output function | 1 NO |
| 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 |
| Discrete output type | PNP/NPN |
| Electrical connection | Male connector M12 4 pins |
| Product Specific Application | Discrete proximity |

Complementary

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| [Sn] nominal sensing distance | 7.00 in (177.8 mm) |
| [Sd] sensing range | 6.49...7.00 in (164.8...177.8 mm) |
| Maximum differential travel | 0.01 in (0.35 mm) |
| Blind zone | 0.75 in (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 63.5 mm sensing distance |
| Current Consumption | 60 mA |
| Maximum switching current | 100 mA reverse polarity protection |
| Height | 0.7 in (18 mm) |
| Width | 0.7 in (18 mm) |
| Depth | 0.7 in (18 mm) |
| Length | 2.91 in (73.91 mm) |
| Net Weight | 0.075 lb(US) (0.034 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...140 °F (0...60 °C) |
| Ambient Air Temperature for Storage | -40...212 °F (-40...100 °C) |
| Relative humidity | 100 % without condensation |
| Vibration resistance | +/-1 mm 10...55 Hz)IEC 60068-2-6 |

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| Shock resistance | 30 gn in all 3 axes 11 ms IEC 60068-2-27 |
| Resistance to electromagnetic fields | 9.1 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

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|-------------------|----------------|
| Category | US10DS222490 |
| Discount Schedule | 0DS2 |
| GTIN | 03389119105590 |
| Returnability | No |

Packing Units

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|------------------------------|-----|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

Offer Sustainability

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|---------------------------|---|
| 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 www.P65Warnings.ca.gov |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |

Contractual warranty

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| Warranty | 18 months |
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