



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 |
| [Sn] nominal sensing distance | 3.03 in (77 mm) |
| Type of sensing window | Fixed |
| Material | Plastic |
| Enclosure Material | ULTEM |
| 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 | 1 male connector M12 4 pins |
| Product Specific Application | Discrete proximity |

Complementary

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| [Sd] sensing range | 1.03...3.03 in (26.2...77 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 | 0.71 in (18 mm) |
| Width | 0.71 in (18 mm) |
| Depth | 0.71 in (18 mm) |
| Length | 2.91 in (73.91 mm) |
| Product Weight | 0.07 lb(US) (0.033 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 | 9.14 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

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| Category | 22490 - SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule | DS2 |
| GTIN | 03389119103503 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.13 lb(US) (0.06 kg) |
| Returnability | No |
| Country of origin | US |

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 |
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |

Contractual warranty

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| Warranty | 18 months |
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