



## Main

|                              |  |
|------------------------------|--|
| 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                     | 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        | Male connector M12 4 pins                          |
| Product Specific Application | Discrete proximity                                 |

## Complementary

|                                 |  |
|---------------------------------|--|
| [Sn] nominal sensing distance   | 3.03 in (77 mm)  |
| [Sd] sensing range              | 2.78...3.03 in (70.6...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)   |
| Net Weight                      | 0.07 lb(US) (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 | 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 |

|                                      |  |
|--------------------------------------|--|
| 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                  | 3389119103237                    |
| Nbr. of units in pkg. | 1                                |
| Package weight(Lbs)   | 2.08 oz (58.967 g)               |
| Returnability         | No                               |
| Country of origin     | US                               |

### Packing Units

|                        |                    |
|------------------------|--------------------|
| Unit Type of Package 1 | PCE                |
| Package 1 Height       | 3.31 in (8.415 cm) |
| Package 1 width        | 1.50 in (3.81 cm)  |
| Package 1 Length       | 3.31 in (8.415 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 |
|----------|-----------|