



## Main

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| 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 | 5.00 in (127 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

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| [Sd] sensing range              | 3.00...5.00 in (76.2...127 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                  | 03389119104524                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.13 lb(US) (0.06 kg)              |
| Returnability         | No                                 |
| Country of origin     | US                                 |

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

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Mouser Electronics

Authorized Distributor

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