



**THE DATASHEET OF
SM380A34400FP**





Main

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|------------------------------|--|
| Range of Product | Hyde Park |
| Sensor Type | Ultrasonic sensor |
| Series name | Superprox 300 |
| Device short name | SM380 |
| Sensor design | Flat form miniature |
| Type of sensing window | Fixed |
| Material | Plastic |
| Enclosure Material | ULTEM |
| Front material | Glass epoxy |
| Type of output signal | Discrete |
| Discrete output function | 1 NO |
| 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 | Remote male connector M12 4 pins, 5.98 in (152 mm) |
| Product Specific Application | Discrete proximity |

Complementary

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|---------------------------------|--|
| [Sn] nominal sensing distance | 3.00 in (76.2 mm) |
| [Sd] sensing range | 0.24...3.00 in (6.2...76.2 mm) |
| Maximum differential travel | 0.03 in (0.7 mm) |
| Blind zone | 0.25 in (6.4 mm) |
| Transmission frequency | 500 kHz |
| Repeat accuracy | 0.7 % |
| Beam angle | 8 ° |
| Minimum size of detected object | Cylinder diameter 2.5 mm - up to 1 mm sensing distance |
| Current Consumption | 25 mA |
| Maximum switching current | 100 mA reverse polarity protection |
| Height | 0.30 in (7.62 mm) |
| Width | 0.75 in (19.05 mm) |
| Depth | 0.30 in (7.62 mm) |
| Length | 1.30 in (33.02 mm) |
| Net Weight | 0.09 lb(US) (0.04 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 | -22...158 °F (-30...70 °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 |

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| 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 | 3389119090698 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.16 oz (117.934 g) |
| Returnability | No |
| Country of origin | US |

Packing Units

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|------------------------|--------------------|
| 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 www.P65Warnings.ca.gov |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information |  Yes |

Contractual warranty

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

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