Product data sheet
Characteristics

SM380A22800
Hyde Park, Ultrasonic sensor, discrete, 12 mm barrel, 12 24 V DC

Main

Range of Product	Hyde Park
Sensor Type	Ultrasonic sensor
Series name	Superprox 300
Device short name	SM380
Sensor design	Cylindrical M12
Type of sensing window	Fixed
Material	Plastic
Enclosure Material	ULTEM
Front material	Glass epoxy
Type of output signal	Discrete
Discrete output function	1 NO
ISO thread	M12 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	Remote male connector M12 4 pins, 6.0 in (152 mm)
Product Specific Application	Discrete proximity

Complementary

[Sn] nominal sensing distance	2.0000000000 in (50.8 mm)
[Sd] sensing range	0.2…2.0000000000 in (6.3…50.8 mm)
Maximum differential travel	0.03 in (0.7 mm)
Blind zone	0.3 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	0.5 in (12 mm)
Width	0.5 in (12 mm)
Depth	0.5 in (12 mm)
Length	2.29 in (58.16 mm)
Net Weight	0.024 lb(US) (0.011 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	-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

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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

Category	US10DS222490
Discount Schedule	0DS2
GTIN	785901679981
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.77 in (4.500 cm)
Package 1 Width	2.56 in (6.500 cm)
Package 1 Length	3.74 in (9.500 cm)
Package 1 Weight	1.587 oz (45.000 g)

Offer Sustainability

SCIP Number	435317c3-e86a-47b7-acde-88c832f96adb
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	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months