Product data sheet
Characteristics

SM600AB0B08FP
Hyde Park, Ultrasonic sensor, discrete, subcompact flat profile, 12 24 V DC

Main

Range of Product	Hyde Park
Sensor Type	Ultrasonic sensor
Series name	Superprox 600
Device short name	SM600
Sensor design	Flat form subcompact
[Sn] nominal sensing distance	10.00 in (254 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
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	Cable, 9.84 ft (3 m)
Product Specific Application	Discrete proximity

Complementary

[Sd] sensing range	2.01…10.00 in (51…254 mm)
Maximum differential travel	0.01 in (0.35 mm)
Blind zone	2.01 in (51 mm)
Transmission frequency	500 kHz
Repeat accuracy	0.07 %
Beam angle	7 °
Minimum size of detected object	Cylinder diameter 1.59 mm - up to 76.2 mm sensing distance
Current Consumption	50 mA
Maximum switching current	100 mA reverse polarity protection
Height	0.64 in (16.25 mm)
Width	1.18 in (30 mm)
Depth	0.64 in (16.25 mm)
Length	2.91 in (73.91 mm)
Net Weight	0.15 lb(US) (0.07 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	03389119095921
Nbr. of units in pkg.	1
Package weight(Lbs)	0.42 lb(US) (0.19 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 www.P65Warnings.ca.gov
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schneider Electric:
SM600AB0B08FP