

# Product data sheet

## Characteristics

# SM656A21610FP

Hyde Park, ultrasonic sensor flat subcompact,  
Sn51mm, 4...20 mA, M12



### Main

Range of Product	Hyde Park
Sensor Type	Ultrasonic sensor
Series name	Superprox 600
Device short name	SM656
Sensor design	Flat form subcompact
[Sn] nominal sensing distance	2.00 in (50.8 mm)
Type of sensing window	Fixed
Material	Plastic
Enclosure Material	ULTEM
Front material	Silicone rubber
Type of output signal	Analog
Wiring Technique	4-wire
[Us] rated supply voltage	15...24 V DC overload and short-circuit protection
Supply voltage limits	13...28 V DC
Analogue output range	4...20 mA inverse
Electrical connection	1 male connector M12 4 pins
Product Specific Application	-

### Complementary

[Sd] sensing range	1.00...2.00 in (25.4...50.8 mm)
[Sa] assured operating distance	1.00...2.00 in (25.4...50.8 mm)
Blind zone	0.00...0.75 in (0...19 mm)
Transmission frequency	500 kHz
Beam angle	10 °
Minimum size of detected object	Cylinder diameter 1.59 mm - up to 63.5 mm sensing distance
Current Consumption	50 mA
Maximum switching current	100 mA reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Height	0.64 in (16.25 mm)
Width	1.18 in (30 mm)
Depth	0.64 in (16.25 mm)
Length	3.32 in (84.32 mm)
Net Weight	0.10 lb(US) (0.045 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	03389119108201
Nbr. of units in pkg.	1
Package weight(Lbs)	0.48 oz (13.608 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: Diisobutyl 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
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