

# SM650A43200FP

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	SM650
Sensor design	Flat form subcompact
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 with overload and short-circuit protection
Supply voltage limits	10...28 V DC
Discrete output type	PNP/NPN
Electrical connection	Male connector M12 4 pins
Product specific application	Discrete proximity

## Complementary

[Sn] nominal sensing distance	101.6 mm
[Sd] sensing range	50.8...101.6 mm
Maximum differential travel	0.35 mm
Blind zone	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 63.5 mm sensing distance
Current consumption	60 mA
Maximum switching current	100 mA with reverse polarity protection
Height	16.25 mm
Width	30 mm
Depth	16.25 mm
Length	84.32 mm
Net weight	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	0...60 °C
Ambient air temperature for storage	-40...100 °C
Relative humidity	100 % without condensation
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz)
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27

Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.415 cm
Package 1 Width	3.81 cm
Package 1 Length	8.415 cm
Package 1 Weight	58.967 g

### 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>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

### Contractual warranty

Warranty	18 months
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