

Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 600
Device short name	SM650
Sensor design	Cylindrical M18
[Sn] nominal sensing distance	101.6 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
ISO thread	M18 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	1 male connector M12 4 pins
Product specific application	Discrete proximity

Complementary

[Sd] sensing range	24.6 mm...101.6 m
Maximum differential travel	0.35 mm
Blind zone	19 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 (reverse polarity protection)
Height	18 mm
Width	18 mm
Depth	18 mm
Length	73.91 mm
Product weight	0.033 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 10...55 Hz
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27

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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