



Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 600
Device short name	SM650
Sensor design	Flat form subcompact
[Sn] nominal sensing distance	50.8 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 with 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	-

Complementary

[Sd] sensing range	25.4...50.8 mm
[Sa] assured operating distance	25.4...50.8 mm
Maximum differential travel	0.35 mm
Blind zone	0...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 with reverse polarity protection
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2

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

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
-------------------	--

Contractual warranty

Warranty	18 months
----------	-----------