

# SM300A46000FP

ultrasonic sensor flat miniature - Sn102mm -  
NO - 12..24VDC - cable 3m



## Main

Range of product	Hyde Park
Sensor type	Ultrasonic sensor
Series name	Superprox 300
Device short name	SM300
Sensor design	Flat form miniature
[Sn] nominal sensing distance	101.6 mm
Type of sensing window	Fixed
Material	Plastic
Enclosure material	ULTEM
Front material	Glass epoxy
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 3 m
Product specific application	-

## Complementary

[Sd] sensing range	6.3...101.6 mm
[Sa] assured operating distance	6.3...101.6 mm
Maximum differential travel	0.7 mm
Blind zone	0...6.4 mm
Transmission frequency	500 kHz
Repeat accuracy	0.7 %
Beam angle	8 °
Minimum size of detected object	Cylinder diameter 2.5 mm - up to 1 mm sensing distance
Current consumption	25 mA
Maximum switching current	100 mA (reverse polarity protection)
Resistance to electrostatic discharge	8 kV (level 4) conforming to IEC 61000-4-2
Height	7.62 mm
Width	19.05 mm
Depth	7.62 mm
Length	33.02 mm
Product weight	0.12 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	-30...70 °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
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

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