IPF ELECTRONIC

DATA SHEET KB051280 • Subject to alteration! Version: 03.05.2019

KB051280

CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

Capacitive proximity switches are contact-free sensors. They detect metallic and non-metallic objects, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material, its dimensions and the response sensitivity, which is set via a potentiometer. The vibration-resistant sensors can be approached laterally or frontally. Capacitive proximity switches are used for presence detection (e.g. sealing detection), positioning (e.g. PET bottles), counting (e.g. plastic caps), level detection (e.g. lubricant) or distance measurements (e.g. thickness measurement) of solid and liquid materials.

MECHANICAL DATA

Ambient temperature	-55 °C ... 125 °C
Ambient temperatures < -25°C	Yes
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Increased ambient temperatures > 80°C	Yes
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor diameter	5 mm
Thread pitch	0.5 mm
Thread size, metric	5

ELECTRICAL DATA

Cascadable	No
Hysteresis	10 %
No-load current	10 mA
Rated control supply voltage Us at DC	10 V ... 35 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 35 V
Switching distance	0.8 mm
Switching distance	0.8 mm ... 0.8 mm
Switching frequency	100 Hz
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage drop	2.5 V
Voltage type	DC
With monitoring function of downstream devices	No

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DIMENSIONAL DRAWING

INSTALLATION

Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL

SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

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