

KB250100

Capacitive sensors • Norm switching distance

sensor capacitive, 50x10x25mm, Flush, Sn: 2-8, 10-36V DC, PNP NO, Cable 1.5m PVC, IP65, PBT, LED, Manual adjustment



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.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200mA
Setting procedure	Potentiometer
Relative hysteresis	20%
Short-circuit protection	Yes
No-load current	15mA
Switching distance	2 - 8mm
Switching frequency	25Hz
Voltage drop	1.5V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 36V
Output functions	Switching point

Mechanical features

Number of cores	3
Conductor cross-section	0.34mm ²
Design	Cuboid
Width	25mm
Height	50mm
Cable length	1.5m
Length	10.1mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP65
Active area material of sensor	Plastic (PBT)
Housing material	PBT
Material of cable sheath	Plastic (PVC)
Ambient temperature	-25 - 70°C

Other features

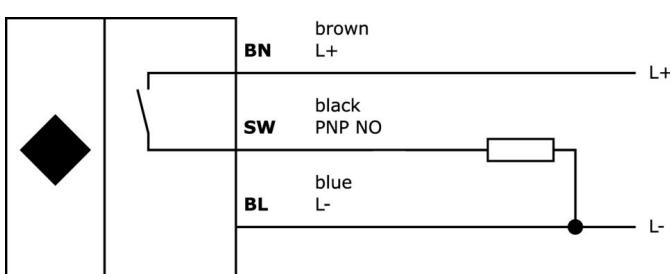
Level detection	Yes
Reference medium / object	Material with permittivity $\epsilon_r=81$
Ambient temperature	-25 - 70°C

Classification

ETIM 8	EC002715 Capacitive proximity switch
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More

IPF Product Group	245 capacitive sensors (cuboid)
packaging dimensions	123 x 77 x 25 mm
gross weight	90 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection**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.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing