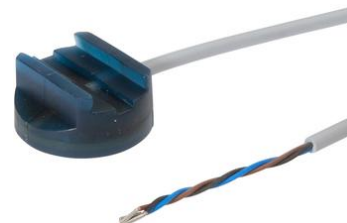


KBRC0103

Capacitive sensors • Increased switching distance

sensor capacitive, Ø30mm 14long, Flush, Sn: 15, 10-35V DC, 1x PNP NO, Cable 2m PVC, IP68, Polyamide PA, LED, Teach-In

including 1x Magnet



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

Number of switching outputs	1
Display	LED display
Type of actuation	other
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200mA
Setting procedure	Teach-In
Short-circuit protection	Yes
No-load current	15mA
Residual ripple	10%
Switching distance	15mm
Switching frequency	2Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V
Output functions	Switching point

Mechanical features

Number of cores	3
Conductor cross-section	0.14mm ²
Design	Cylinder plain
Diameter	30mm
Height	14mm
Cable length	2m
Length	14mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP68
Active area material of sensor	Plastic (PA)
Housing material	Polyamide PA
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

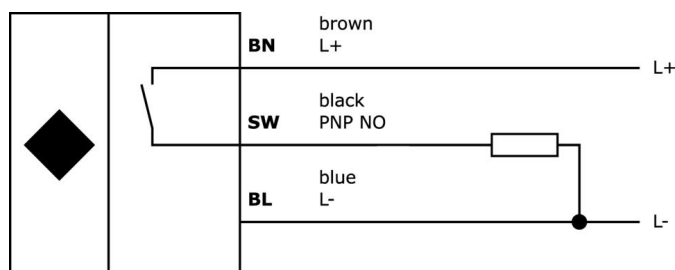
Classification

ETIM 8	EC002715 Capacitive proximity switch
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More

IPF Product Group	240 capacitive sensors
packaging dimensions	123 x 77 x 25 mm
gross weight	66 g
Customs tariff number	85365019
WEEE number	40951076
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

