

KN320420

Capacitive sensors • Norm switching distance

Sensor capacitive, M32x1.5 82long, non-flush, Sn: 1-40, 10-35V diagnostic coverage, -25-70°C, 2x PNP exclusive-OR, M12 connector, IP67, brass, LED, manual setting

including 2x Nut, 1x Screwdriver



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	2
Display	LED display
Type of switching function	Exclusive-OR
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	250mA
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	15mA
Switching distance	1 - 40mm
Switching frequency	50Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V
Output functions	Switching point

Mechanical features

Design	Cylinder, screw-thread
Thread pitch	1.5mm
Length	82mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PTFE)
Housing material	Brass
Thread dimension	M32
Ambient temperature	-25 - 70°C

Other features

Important note	Das Potentiometer befindet sich hinter der Abdeckung.
Level detection	Yes
Level detection of synthetic granules for injection molding machines	Yes
Reference medium / object	Material with permittivity $\epsilon_r=81$
Ambient temperature	-25 - 70°C

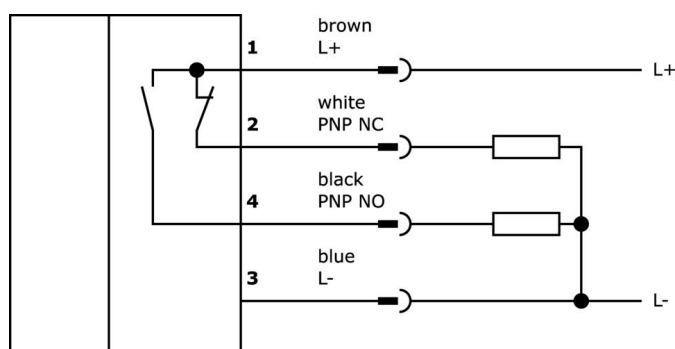
Classification

ETIM 8	EC002715 Capacitive proximity switch
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More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	125 x 70 x 40 mm
gross weight	240 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.