

## KB127000

### Capacitive sensors • Norm switching distance

sensor capacitive, M12x1 50long, Flush, Sn: 1-5, NAMUR Amplifier, Cable, IP67, Stainless steel 1.4305, LED, Manual adjustment

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

Display	LED display
Type of switching function	Amplifier
Type of electrical connection	Cable
Type of switching output	NAMUR
Setting procedure	Potentiometer
Switching distance	1 - 5mm
Switching frequency	50Hz
Output functions	Switching point

#### Mechanical features

Design	Cylinder, screw-thread
Diameter	12mm
Thread length	37mm
Thread pitch	1mm
Length	50mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PTFE)
Housing material	Stainless steel 1.4305
Thread dimension	M12
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

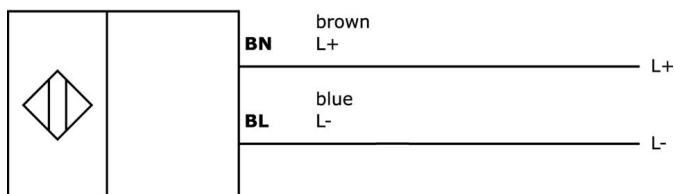
ETIM 8	EC002715 Capacitive proximity switch
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## More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	149 x 124 x 28 mm
gross weight	100 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection

### Connection to amplifier



## 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](http://www.ipf-electronic.com).