AbN automation

# KN120100

# **Capacitive sensors • Norm switching distance**

sensor capacitive, M12x1 50long, Non-flush, Sn: 0.5-10, 10-35V DC, PNP NO, Cable 2m PVC, IP67, Stainless steel 1.4305, LED, Manual adjustment

including 2x Nut



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**

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Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	250mA
Setting procedure	Potentiometer
Relative hysteresis	15%
Correction factor (glass)	0.6
Correction factor (wood)	0.6
Correction factor (PVC)	0.5
Correction factor (oil)	0.5
Short-circuit protection	Yes
No-load current	15mA
Switching distance	0,5 - 10mm
Switching frequency	50Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V
Output functions	Switching point



### **Mechanical features**

Number of cores	3
Design	Cylinder, screw-thread
Thread length	45mm
Thread pitch	1mm
Cable length	2m
Length	50mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PTFE)
Housing material	Stainless steel 1.4305
Material of cable sheath	Plastic (PVC)
Thread dimension	M12
Ambient temperature	-25 - 70°C

### Other features

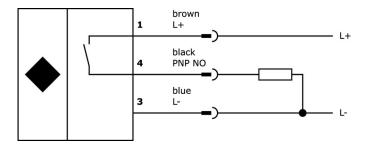
Level detection	Yes
Reference medium / object	Material with permittivity Er=81
Ambient temperature	-25 - 70°C

### Classification

## More

IPF Product Group	240 capacitive sensors
packaging dimensions	123 x 77 x 25 mm
gross weight	70 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

### Connection



## Installation Disposal



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



## 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.

