

KN120100

CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

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.



MECHANICAL FEATURES

Reverse polarity protection

Suitable for safety functions

Setting procedure Short-circuit protection

Supply voltage

Switching distance

Switching distance

Switching frequency

PTFE
-25 °C 70 °C
2 m
IP67
Cylinder, screw-thread
Stainless steel (V2A)
PVC
Non-flush
3
-
50 mm
45 mm
1 mm
12
- 0.6
0.5
0.5
0.6
15 %
250 mA
15 mA
10 V 35 V

+

+

Manual adjustment

10 V ... 35 V

0.5 mm ... 10 mm

4 mm

50 Hz

IPF ELECTRONIC

ELECTRICAL FEATURES

Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection

Other

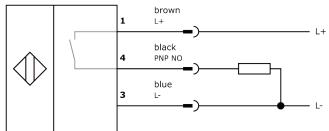
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.07kg
Tariff code	85365019

+

Classification

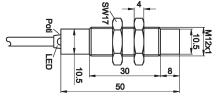
ipf product group	240
eClass 8.0	27270102
eClass 9.0	27270102
eClass 9.1	27270102
ETIM-5.0	EC002715
ETIM-6.0	EC002715
ETIM-7.0	EC002715

Connection





Dimensional drawing



Installation



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



Software

Please download the software or driver required for operating your new device on our homepage: www.ipf.de

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. LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.