

KB081100

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

Ambient temperature	-10 °C ... 70 °C
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel (V2A)
Mechanical mounting condition for sensor	Flush
Pressure-proof	-
Sensor length	42 mm
Thread length	36 mm
Thread pitch	1 mm
Thread size, metric	8

ELECTRICAL FEATURES

Cascadable	-
Max. output current	200 mA
Suitable for safety functions	-
Switching distance	1.5 mm
Switching distance	0.1 mm ... 1.5 mm
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	NPN
Voltage type	DC
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection	+
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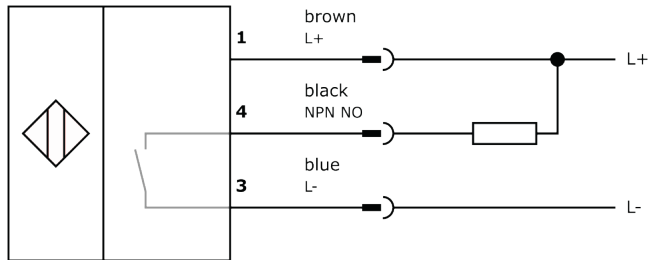
Other

Packaging dimensions	100mm x 0.0mm x 120mm
Shipping weight	0.04kg
Tariff code	85365019

Classification

ipf product group	243
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!

Disposal



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.