

KN990532

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

Active area material of sensor	PBT
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	PBT
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	-
Sensor length	79 mm
Thread pitch	1.5 mm
Thread size, metric	32

ELECTRICAL FEATURES

Cascadable	-
Hysteresis	0.2 %
Max. output current	400 mA
No-load current	20 mA
Reverse polarity protection	+
Setting procedure	Parameterization
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 60 V
Switching distance	30 mm
Switching frequency	25 Hz
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	Other
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection	+
Level detection of synthetic granules for injection molding machines	+

Other

Packaging dimensions	43.0mm x 43.0mm x 105.0mm
Shipping weight	0.1kg
Tariff code	85365019

Classification

ipf product group	700
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.