

KN98C149

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	-25 °C ... 75 °C
Cable length	5 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Polyoxymethylene (POM)
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of cores	5
Pressure-proof	-
Sensor length	90 mm
Thread pitch	1.5 mm
Thread size, metric	32
Wire cross section	0.34 mm ²

ELECTRICAL FEATURES

Cascadable	-
Hysteresis	15 %
Max. output current	1000 mA
No-load current	1.7 mA
Rated control supply voltage U_s at DC	20 V ... 250 V
Suitable for safety functions	-
Supply voltage	20 V ... 250 V
Switching distance	15 mm
Switching distance	2 mm ... 25 mm
Switching frequency	1 Hz
Type of electrical connection	Cable
Type of switching function	Change-over contact
Type of switching output	Relay contact
Voltage type	AC/DC
With monitoring function of downstream devices	-

OTHER FEATURES

Level detection	+
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OTHER FEATURES

Level detection of sand container for railed vehicles +

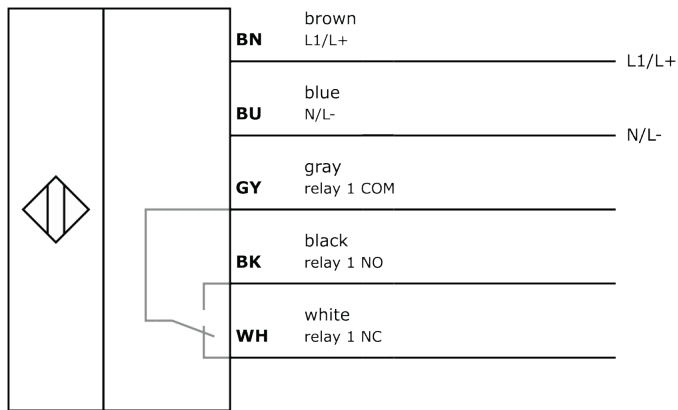
Other

Packaging dimensions	138.0mm x 95.0mm x 210mm
Shipping weight	0.51kg
Tariff code	85365080

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.