

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 DATA

Ambient temperature (MAX)	75 °C
Ambient temperature (MIN)	-25 °C
Cable length	5 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	POM
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of wires	5
Pressure-proof	No
Sensor length	90 mm
Thread pitch	1.5 mm
Thread size, metric	32
Wire cross section	0.34 mm ²

ELECTRICAL DATA

Cascadable	No
Hysteresis	15 %
Max. output current	1000 mA
No-load current	1.7 mA
Rated control supply voltage U_s at DC (MAX)	250 V
Rated control supply voltage U_s at DC (MIN)	20 V
Suitable for safety functions	No
Supply voltage (MAX)	250 V
Supply voltage (MIN)	20 V
Switching distance	15 mm
Switching distance (MAX)	25 mm
Switching distance (MIN)	2 mm
Switching frequency	1 Hz
Type of electrical connection	Cable
Type of switching function	Change-over contact

ELECTRICAL DATA

Type of switching output	Relay contact
Voltage type	AC/DC
With monitoring function of downstream devices	No

OTHER DATA

Level detection	Yes
Level detection of sand container for railed vehicles	Yes

DIMENSIONAL DRAWING**INSTALLATION**

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

DISPOSAL**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.