

KN120120

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

Active area material of sensor	PTFE
Ambient temperature	-25 °C 70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	EV006909
Housing material	Stainless steel (V2A)
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	60 mm
Thread length	32 mm
Thread pitch	1 mm
Thread size, metric	12

No
0.6
0.5
0.5
0.6
15 %
250 mA
15 mA
3
10 V 35 V
Yes
Manual adjustment
Yes
No
10 V 35 V
4 mm
0.5 mm 10 mm



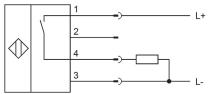
ELECTRICAL DATA

Switching frequency	50 Hz
Type of electrical connection	Connector M12
Type of electrical connection	EV006702
Type of switching function	Normally open contact
Type of switching function	EV000145
Type of switching output	PNP
Type of switching output	EV000510
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

OTHER DATA

Level detection	Yes
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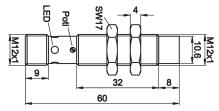
CONNECTION



Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = n. c., 3 = L-, 4 = PNP NO

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.