

KB12A714
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

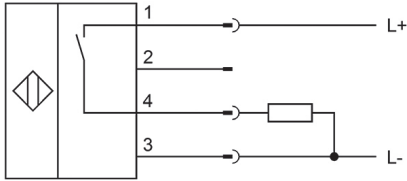
Active area material of sensor	PTFE
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor length	76 mm
Thread pitch	1 mm
Thread size, metric	12

ELECTRICAL DATA

Cascadable	No
Max. output current	250 mA
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	2 mm
Switching distance (MAX)	6 mm
Type of electrical connection	Connector M12
Type of switching function	Normally open contact
Type of switching output	PNP
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.