

KN830100

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	PBT
Ambient temperature	-25 °C 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	PBT
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor diameter	100 mm
Sensor length	40 mm

No
0.6
0.5
0.5
0.6
15 %
400 mA
4 mA
10 V 55 V
Yes
Yes
No
10 V 55 V
70 mm
1 mm 120 mm
10 Hz
Cable



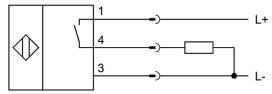
ELECTRICAL DATA

Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	1.5 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

OTHER DATA

Level detection	Yes
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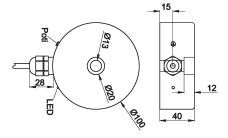
CONNECTION



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

Functions: 1 = L+, 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!

