## KN800100

## **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	80 mm
Sensor length	40 mm
ELECTRICAL DATA	
Cascadable	No
	0.6
Correction factor (glass) Correction factor (oil)	0.5
Correction factor (PVC)	0.5
	0.6
Correction factor (wood)	0.8
Hysteresis	400 mA
Max. output current No-load current	
	4 mA 10 V 55 V
Rated control supply voltage Us at DC	
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	
Supply voltage	10 V 55 V
Switching distance	55 mm
Switching distance	1 mm 70 mm
Switching frequency	10 Hz
Type of electrical connection	Cable

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# **ELECTRICAL DATA**

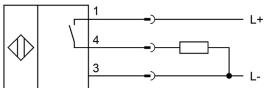
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	1.5 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

# **OTHER DATA**

Level detection

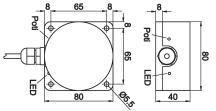
Yes

# 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!

# **IPF** ELECTRONIC