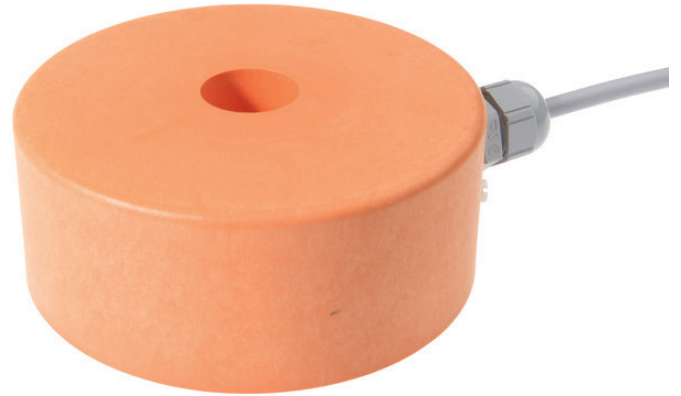


**KN830100**
**CAPACITIVE SENSORS • NORM SWITCHING DISTANCE**

sensor capacitive, Ø100mm 40long, Non-flush, Sn: 1-120, 10-55V  
DC, PNP NO, Cable 2m PVC, IP67, PBT, LED


**MECHANICAL FEATURES**

Active area material of sensor	PBT
Ambient temperature	-25 °C ... 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Design	Cylinder plain
Housing material	PBT
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of cores	3
Pressure-proof	-
Sensor diameter	100 mm
Sensor length	40 mm

**ELECTRICAL FEATURES**

Cascadable	-
Correction factor (glass)	0.6
Correction factor (oil)	0.5
Correction factor (PVC)	0.5
Correction factor (wood)	0.6
Hysteresis	15 %
No-load current	4 mA
Rated control supply voltage $U_s$ at DC	10 V ... 55 V
Rated switching current	400 mA
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 55 V
Switching distance	70 mm
Switching distance	1 mm ... 120 mm
Switching frequency	10 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP

## ELECTRICAL FEATURES

Voltage drop	1.5 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

## OTHER FEATURES

Level detection	+
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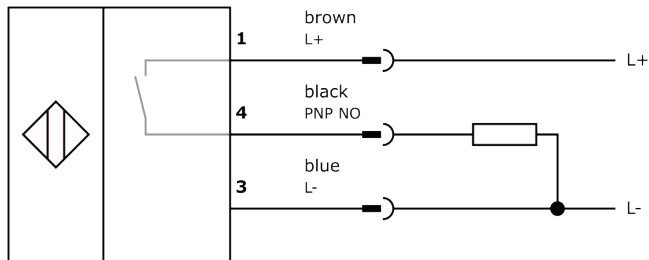
## Other

Packaging dimensions	160mm x 40mm x 240mm
Shipping weight	0.54kg
Tariff code	85365019

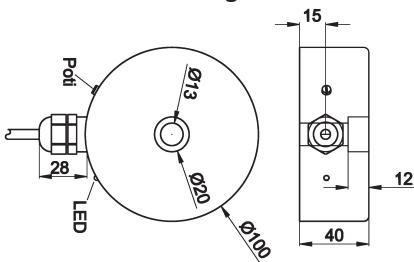
## Classification

ipf product group	243
eClass 8.0	27270102
eClass 9.0	27270102
eClass 9.1	27270102
ETIM-5.0	EC002715
ETIM-6.0	EC002715
ETIM-7.0	EC002715

## Connection



## 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.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.