

## KN304107

### Capacitive sensors • Norm switching distance

sensor capacitive, M30x1.5 81long, Non-flush, Sn: 5-20, 20-250V AC, Two-wire NO, Cable 2m PVC, IP67, PBT, LED, Manual adjustment

including 2x Nut, 1x Screwdriver



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.

#### Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	Two-wire
Rated switching current	300mA
Setting procedure	Potentiometer
Relative hysteresis	20%
Correction factor (glass)	0.6
Correction factor (wood)	0.6
Correction factor (PVC)	0.5
Correction factor (oil)	0.5
No-load current	15mA
Switching distance	5 - 20mm
Switching frequency	15Hz
Voltage drop	10V
Reverse polarity protection	Yes
Min. output current	5mA
Operating voltage (AC 50Hz)	20 - 250V
Output functions	Switching point

## Mechanical features

Number of cores	2
Design	Cylinder, screw-thread
Diameter	30mm
Thread length	40mm
Thread pitch	1.5mm
Cable length	2m
Length	81mm
Mechanical mounting condition for sensor	non-flush
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	PBT
Material of cable sheath	Plastic (PVC)
Thread dimension	M30
Ambient temperature	-25 - 70°C

## Other features

Level detection	Yes
Reference medium / object	Material with permittivity $\epsilon_r=81$
Ambient temperature	-25 - 70°C

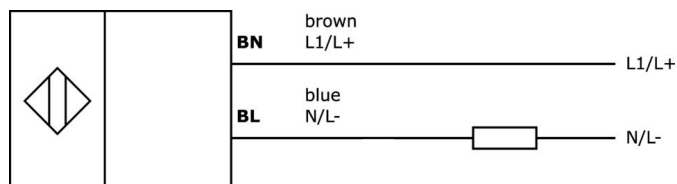
## Classification

ETIM 8	EC002715 Capacitive proximity switch
--------	--------------------------------------

## More

IPF Product Group	243 capacitive sensors (diverse)
packaging dimensions	121 x 76 x 50 mm
gross weight	180 g
Customs tariff number	85365080
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



## Installation



Mounting / installation may only be carried out by a qualified electrician!

## Disposal



