

Product characteristics

Capacitive sensor

Plastic thread M18 x 1

Cable

Sensing range 8 mm; [nrf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Minimum load current [mA]

Leakage current [mA]

Current rating

- Current rating (continuous) [mA]

- Current rating (peak) [mA]

Short-circuit proof

Overload protection

Switching frequency [Hz]

Monitoring range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

Mechanical data

Mounting

Housing materials

Weight [kg]

Displays / operating elements

Output status indication LED

Electrical connection

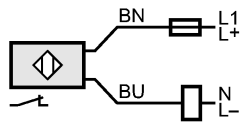
Connection

Wiring

	AC/DC
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no
Output function	normally closed
Voltage drop [V]	< 6
Minimum load current [mA]	4
Leakage current [mA]	< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)
- Current rating (continuous) [mA]	150 AC / 100 DC; 350 AC (...50 °C)
- Current rating (peak) [mA]	\hat{i} : 2.1A (20 ms / 0.5 Hz)
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	25 AC / 50 DC
Sensing range [mm]	8
Real sensing range (Sr) [mm]	8 ± 10 %
Operating distance [mm]	0...6.5
Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-15...15
Ambient temperature [°C]	-25...80
Protection	IP 67
EMC	IEC 60947-5-2: 2007
MTTF [Years]	334
Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.134
Output status indication LED	yellow
Connection	PVC cable / 2 m; 2 x 0.34 mm ²

KG0010 - Capacitive sensor - eclass: 27270102 / 27-27-01-02

Core colors
 BN brown
 BU blue



Note: miniature fuse to IEC60127-2 sheet 1,
 ≤ 2 A (fast acting)

Accessories	
Accessories (included)	2 lock nuts; screwdriver
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1