

KD000A

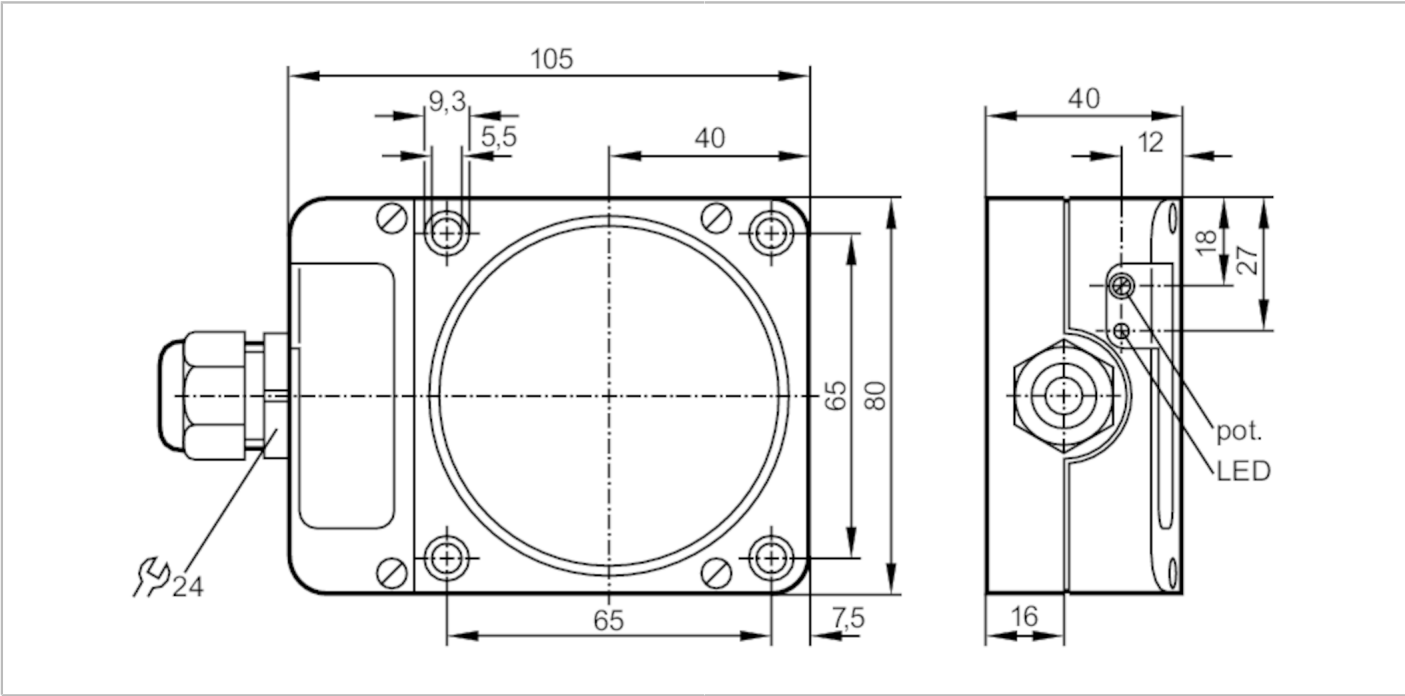


Capacitive sensor

KDE2060-FBOA/NI/3D

Article no longer available - archive entry

Alternative articles: KD001A
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics		
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	60
Housing		rectangular
Dimensions	[mm]	105 x 80 x 40
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	8
Max. voltage drop switching output AC	[V]	10
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.7 (110 V AC) / 1.3 (24 V DC)
Permanent current rating of switching output AC	[mA]	130; (250 (...40 °C) 250 (...50 °C); when used outside the hazardous area: 200 (...80 °C))
Permanent current rating of switching output DC	[mA]	130; (250 (...40 °C) 250 (...50 °C); when used outside the hazardous area: 200 (...80 °C))

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Short-time current rating of switching output	[mA]	1500; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10
Short-circuit proof		no
Overload protection		no

Detection zone		
Sensing range	[mm]	60
Sensing range adjustable		yes
Factory setting sensing range	[mm]	60
Real sensing range Sr	[mm]	60 ± 10 %

Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-15...15

Operating conditions		
Ambient temperature	[°C]	-20...60
Note on ambient temperature		when used outside the hazardous area: -25...80 °C
Protection		IP 65
Increased immunity		yes

Tests / approvals		
ATEX marking		Ex II 3D Ex tD A22 IP65 T80°C X
EMC	IEC 60947-5-2	

Mechanical data		
Weight	[g]	0.327
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	105 x 80 x 40
Materials		PPE modified; PA
Tightening torque for cable gland	[Nm]	2.7; (maximum: 3,5)

Displays / operating elements		
Display	switching status	1 x LED, yellow

Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.

Accessories		
Items supplied		screwdriver: 1 spring washers: 4 cylinder screws: 4

Remarks		
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit. Special conditions for safe operation apply for use in hazardous areas. Observe the corresponding notes in the operating instructions (Ex protection related part).
Pack quantity		1 pcs.

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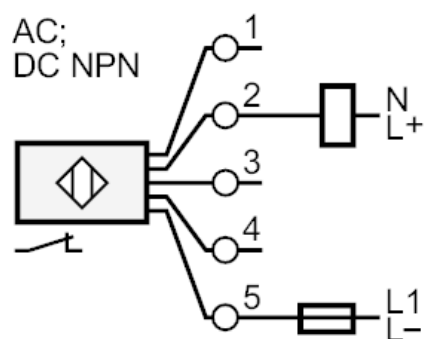
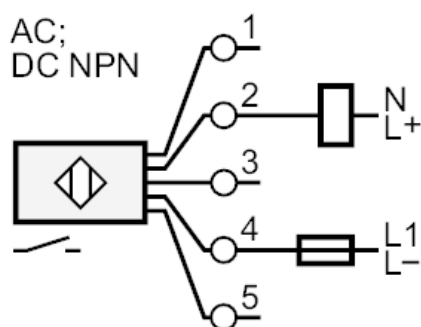
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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 5.5...13 mm; Cable gland: M20 X 1.5

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting
Place the fuse outside the hazardous area.