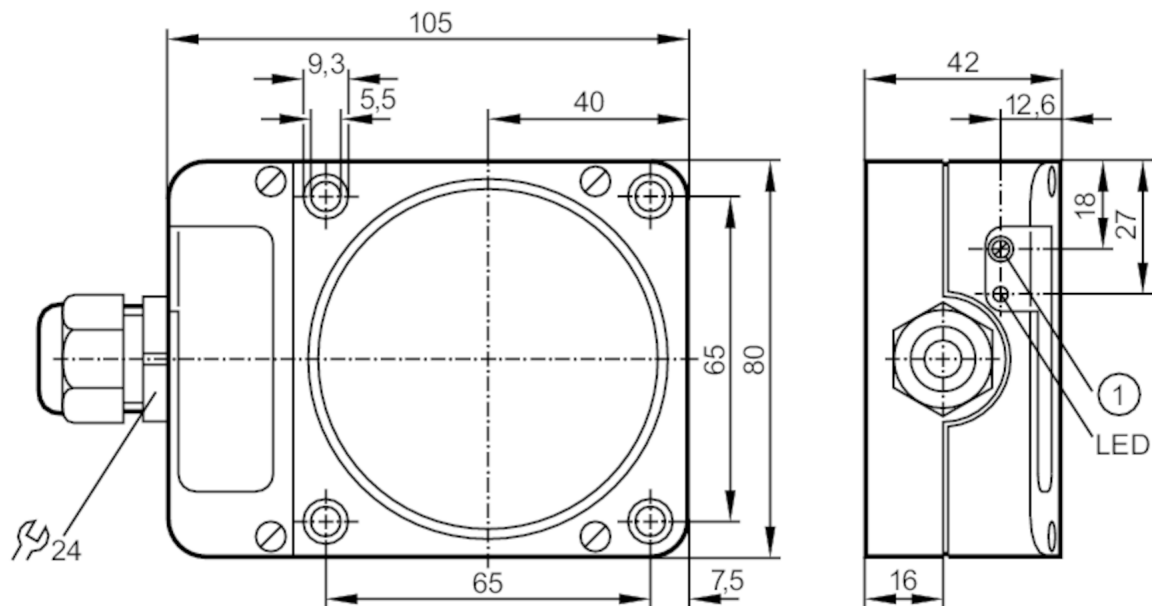


KD001A



Capacitive sensor

KDE2060-FBOA/NI/3D



1 potentiometer



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))
Permanent current rating of switching output DC	[mA]	130; (250 (...40 °C))
Short-time current rating of switching output	[mA]	1500; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	4
Switching frequency DC	[Hz]	4
Notes on switching frequency		only for resistive loads; 2 Hz for utilisation category AC-140
Short-circuit proof		no
Overload protection		no

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Capacitive sensor

KDE2060-FBOA/NI/3D

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
Protection		IP 65
Increased immunity		yes
Tests / approvals		
ATEX marking		 II 3D Ex tc IIIC T90°C Dc X IP65
EMC		EN 60947-5-2
MTTF	[years]	270
Mechanical data		
Weight	[g]	281.8
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	105 x 80 x 42
Materials		PPE modified; PA
Tightening torque	[Nm]	housing screws: 0,9 Nm; screws: 4 Nm
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.
Remarks		
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.

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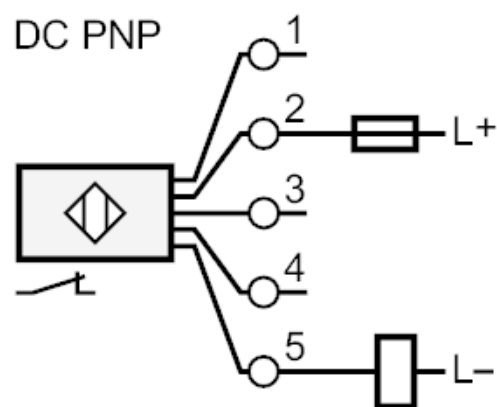
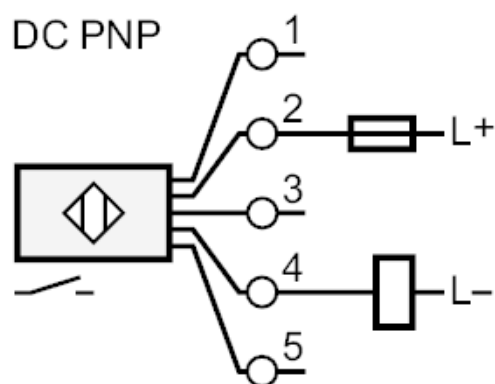
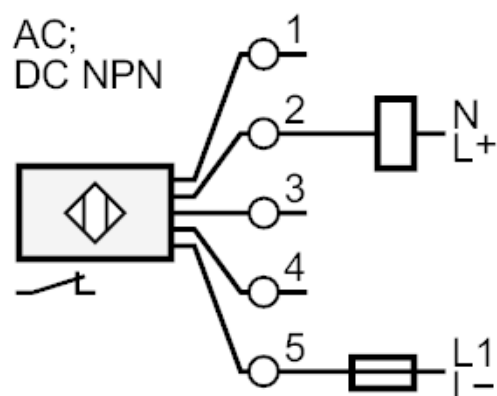
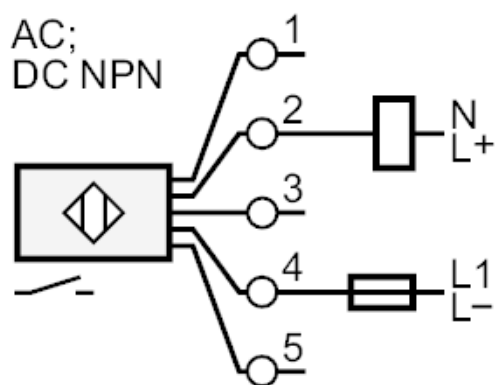
Capacitive sensor

KDE2060-FBOA/NI/3D

Electrical connection

terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 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.