ID000A

Inductive sensor

IDE2060-FBOA/3D

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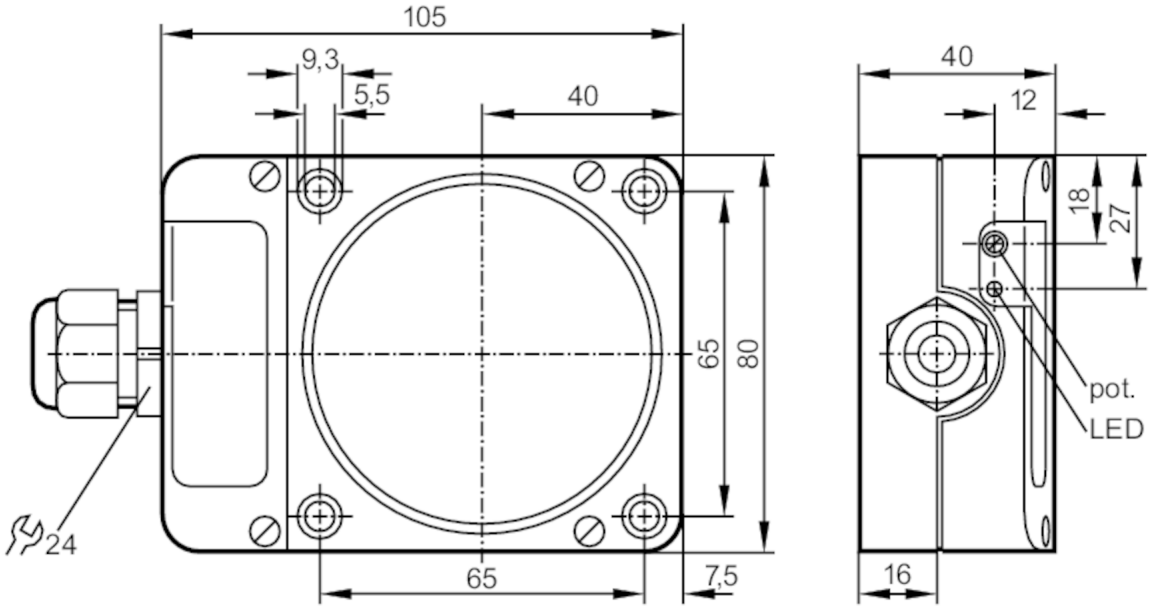

Product characteristics		
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	60
Housing		rectangular
Dimensions	[mm]	105 x 80 x 40
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	200; (350 (...50 °C); when used outside the hazardous area: 250 (...80 °C))
Permanent current rating of switching output DC	[mA]	100; (350 (...50 °C); when used outside the hazardous area: 250 (...80 °C))

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Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)	
Switching frequency AC [Hz]	4	
Switching frequency DC [Hz]	4	
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 %	
Operating distance [mm]	0...48.6	
Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of Sr]	1...15	
Switch point drift [% of Sr]	-10...10	
Operating conditions		
Ambient temperature [°C]	-20...60	
Note on ambient temperature	when used outside the hazardous area: -25...80 °C	
Protection	IP 65	
Tests / approvals		
ATEX marking	II 3D Ex tD A22 IP65 T90°C X	
EMC	EN 60947-5-2	
Mechanical data		
Weight [g]	0.465	
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions [mm]	105 x 80 x 40	
Materials	PPE	
Tightening torque for cable gland [Nm]	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	
Remarks		
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	

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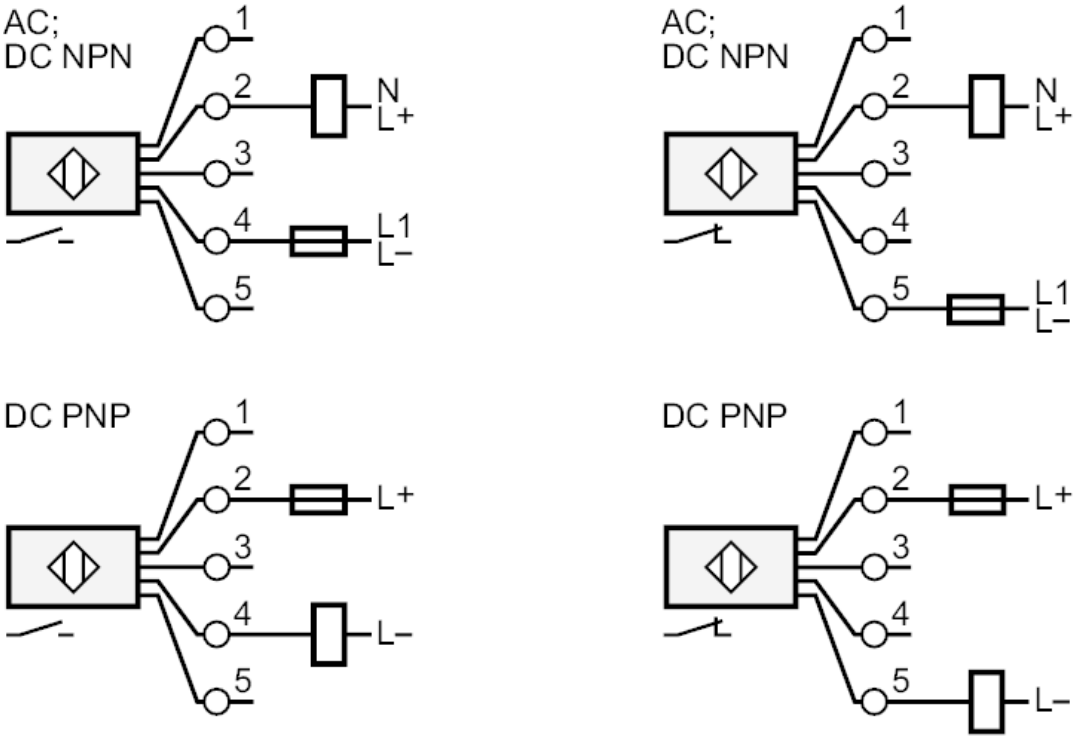
Electrical connection

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.