

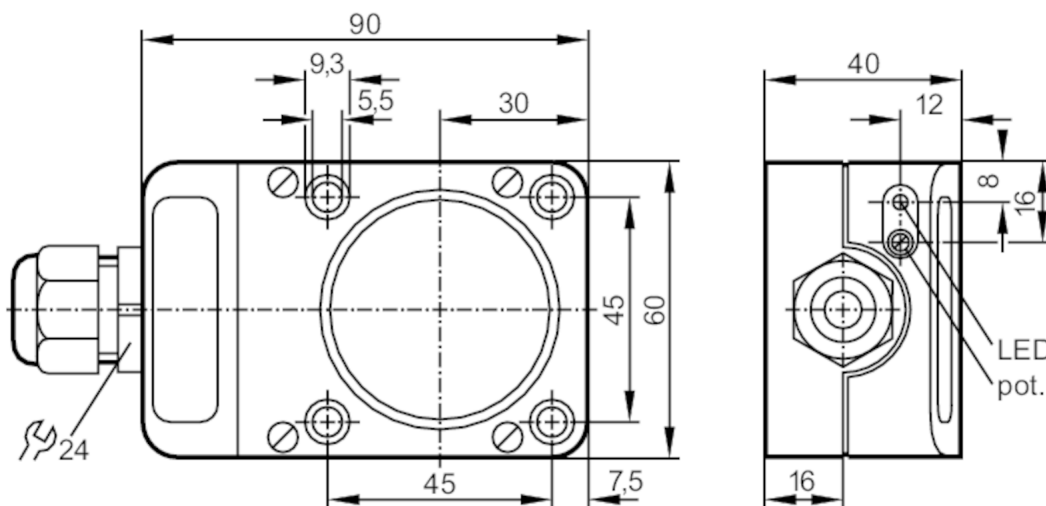
Inductive sensor

ICE2040-FBOA/3D

Article no longer available - archive entry

Alternative articles: IM002A

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]	40
Housing		rectangular
Dimensions	[mm]	90 x 60 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))
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	10



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Switching frequency DC	[Hz]	10
Short-circuit proof		no
Overload protection		no
Detection zone		
Sensing range	[mm]	40
Sensing range adjustable		yes
Factory setting sensing range	[mm]	40
Real sensing range Sr	[mm]	40 ± 10 %
Operating distance	[mm]	0...32.4
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 54; (when used outside the hazardous area: IP 65)
Tests / approvals		
ATEX marking		 II 3D Ex tD A22 IP54 T80°C X
EMC		EN 60947-5-2
Mechanical data		
Weight	[g]	0.291
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	90 x 60 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.

IC000A



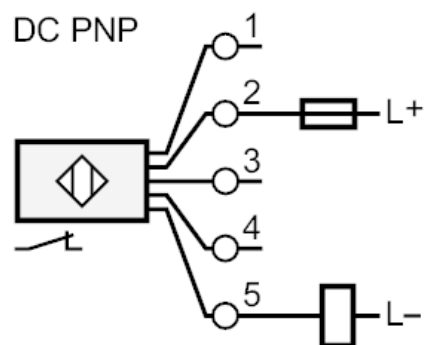
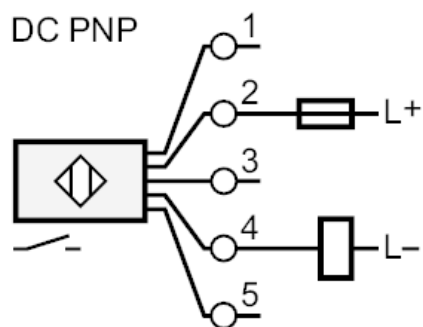
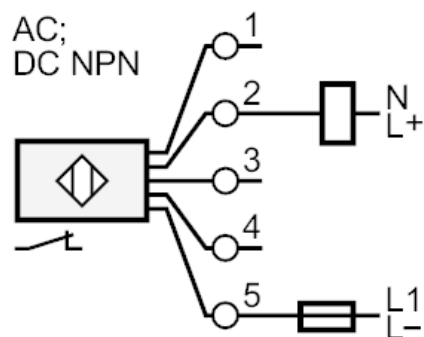
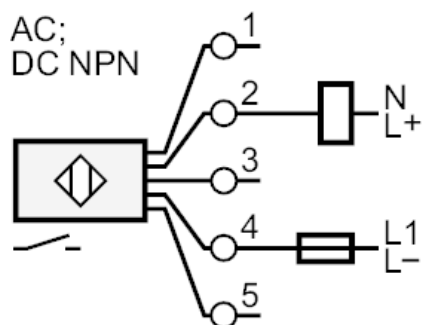
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Electrical connection

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.