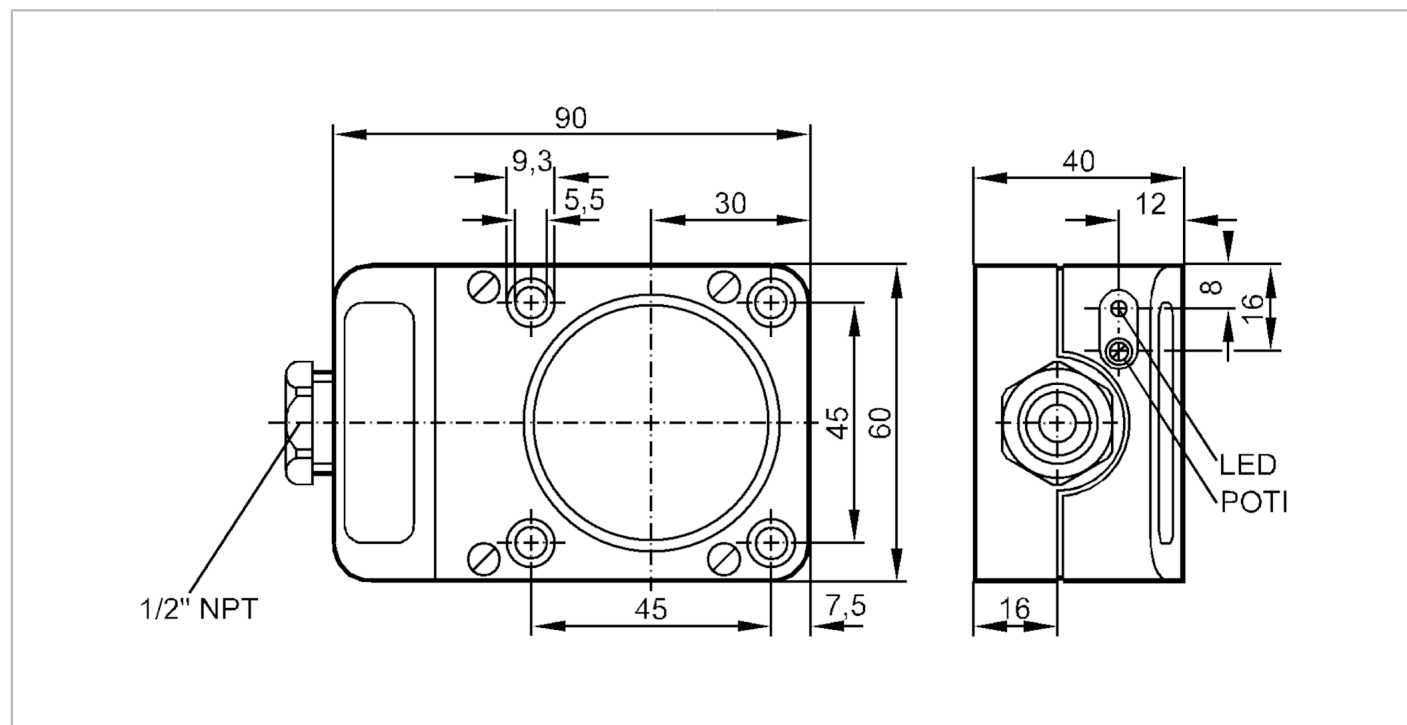




Inductive sensor

ICE2040-FBOA/NPT/RT



Product characteristics

Output function		normally open / 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 / 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]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10
Short-circuit proof		no



Inductive sensor

ICE2040-FBOA/NPT/RT

Overload protection	no	
Monitoring range		
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 / aluminum: 0.3 / copper: 0.2	
Hysteresis [% of Sr]	1...15	
Switch-point drift [% of Sr]	-10...10	
Operating conditions		
Ambient temperature [°C]	-25...80	
Protection	IP 65	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	496	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
Mechanical data		
Weight [g]	274.5	
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions [mm]	90 x 60 x 40	
Material	PPE	
Displays / operating elements		
Display	Switching status	1 x LED, red
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories		
Items supplied	screwdriver: 1	
	spring washers: 4	
	cylinder screws: 4 x (M5 x 35 mm)	
Remarks		
Remarks	Recommendation: check the unit for reliable function after a short circuit.	
Pack quantity	1 pcs.	



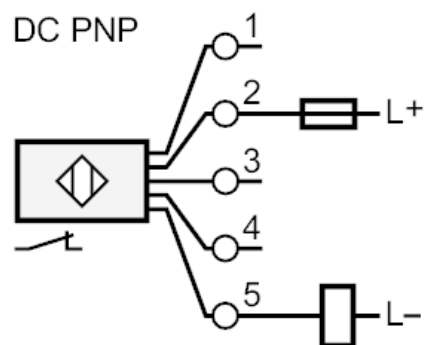
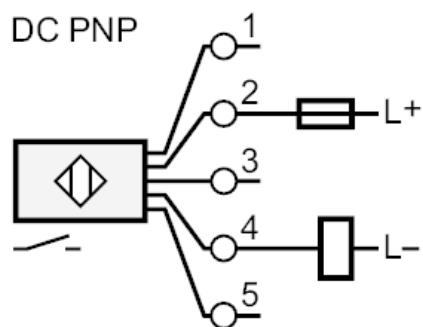
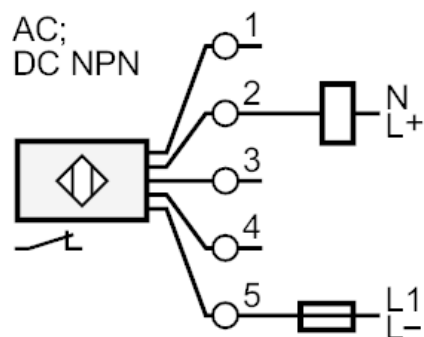
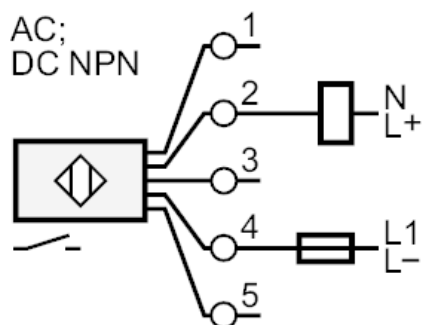
Inductive sensor

ICE2040-FBOA/NPT/RT

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting