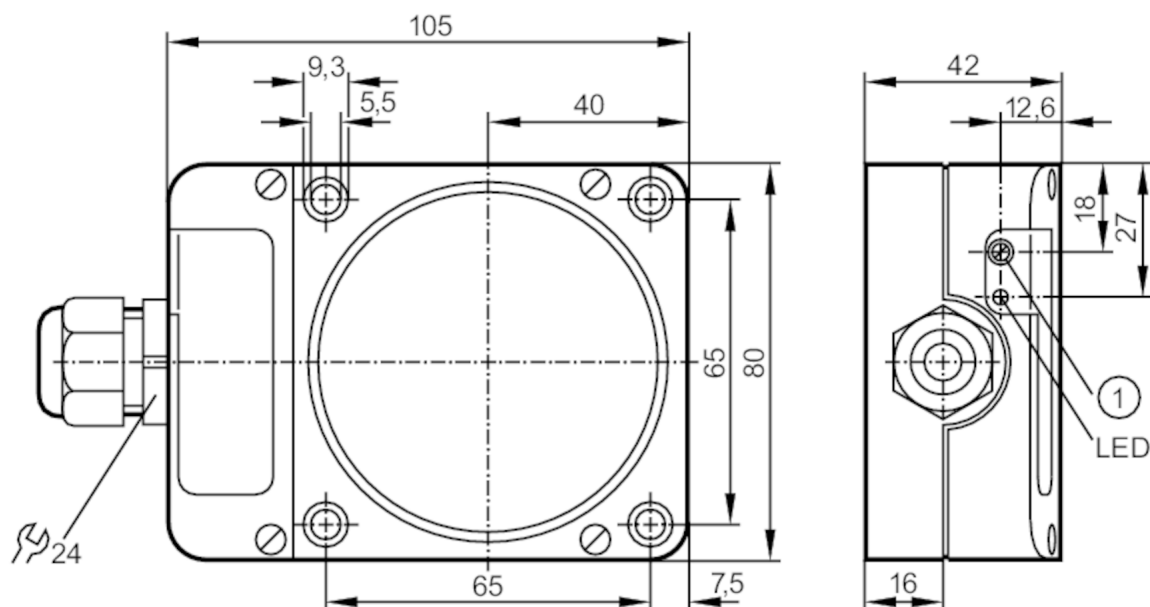


ID002A



Inductive sensor

IDE2060-FBOA/3D



1 potentiometer



Product characteristics

Output function		normally open / closed; (selectable)
Sensing range	[mm]	60
Housing		rectangular
Dimensions	[mm]	105 x 80 x 42

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]	200
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]	4
Switching frequency DC	[Hz]	4
Notes on switching frequency	[Hz]	only for resistive loads; 2 Hz for utilization category AC-140

ID002A



Inductive sensor

IDE2060-FBOA/3D

Short-circuit proof	no
Overload protection	no
Monitoring range	
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 / aluminum: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10
Operating conditions	
Ambient temperature [°C]	-20...60
Protection	IP 65
Tests / approvals	
ATEX marking	II 3D Ex tc IIIC T90°C Dc X IP65
EMC	EN 60947-5-2
MTTF [years]	454
Mechanical data	
Weight [g]	510
Housing	rectangular
Mounting	non-flush mountable
Dimensions [mm]	105 x 80 x 42
Material	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.
Accessories	
Items supplied	screwdriver: 1
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	1 pcs.

ID002A



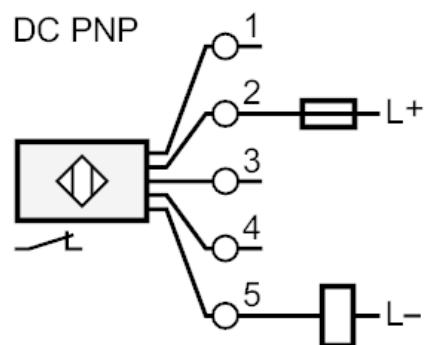
Inductive sensor

IDE2060-FBOA/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.