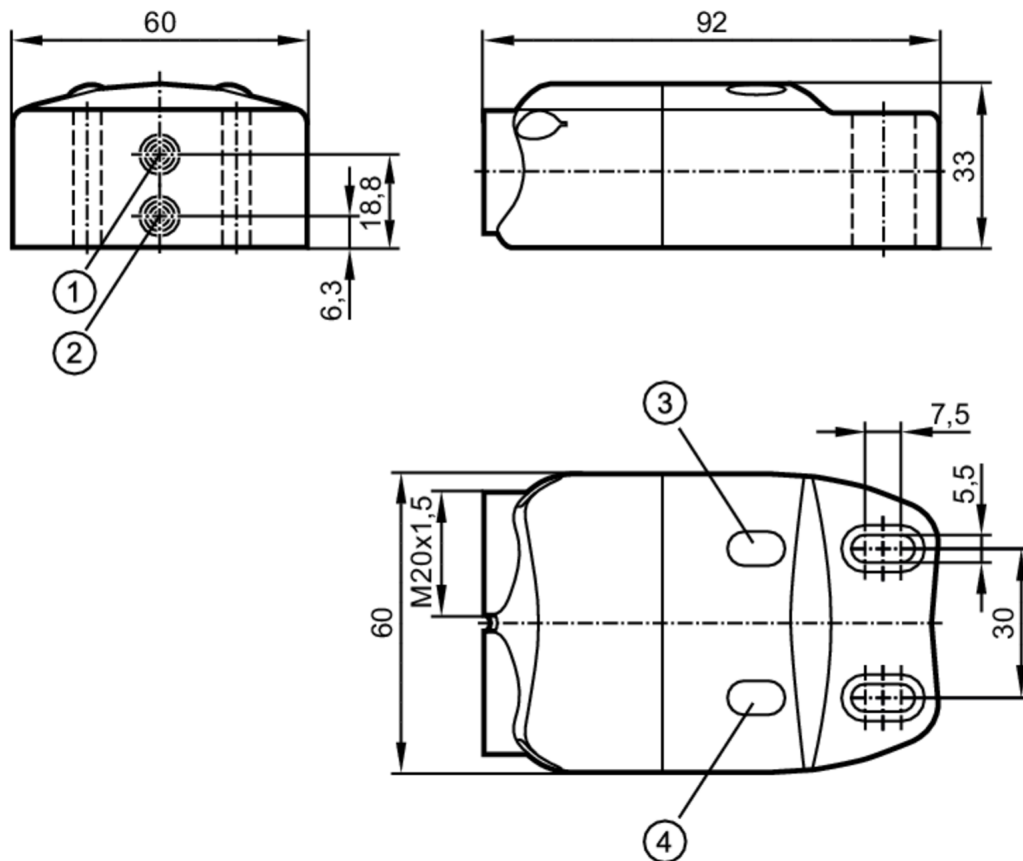


IN0131

Inductive sensor

INE2004DABOA



- 1 sensor 1
- 2 sensor 2
- 3 LED OUT 2
- 4 LED OUT 1



Product characteristics

Output function	2 x normally open
Sensing range [mm]	4
Housing	rectangular
Dimensions [mm]	33 x 60 x 92

Application

Application	Position sensor for valve actuators; actuator control
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Electrical data

Frequency AC [Hz]	47...63
Operating voltage [V]	20...250 AC/DC
Current consumption [mA]	< 15
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	2 x normally open
Max. voltage drop switching output DC [V]	6



Inductive sensor

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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]	25
Switching frequency DC	[Hz]	50
Short-circuit protection		no
Overload protection		no

Monitoring range

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	307
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	File number UL	E174191

Mechanical data

Weight	[g]	168.05
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	33 x 60 x 92
Material		housing: PA

Displays / operating elements

Display	Switching status	2 x LED, yellow
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Electrical connection

Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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Accessories

Items supplied		washers: 2
		cylinder screws: 2 x (M5 x 18 mm)

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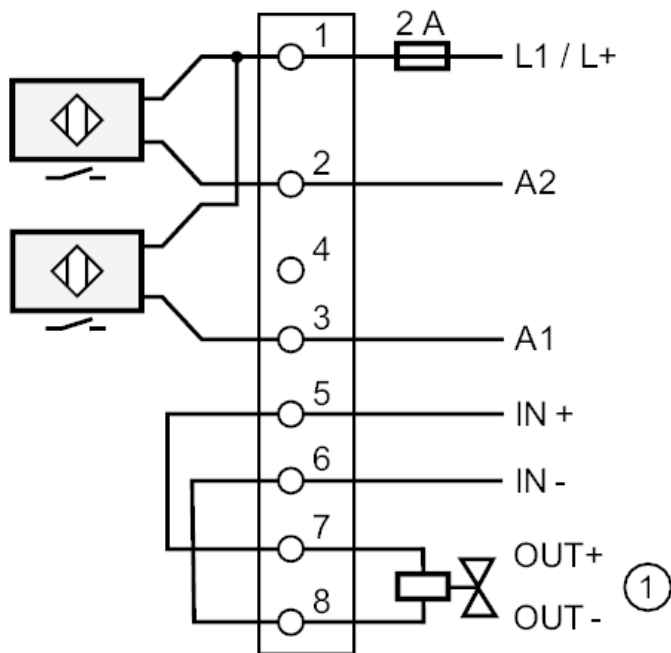


Inductive sensor

INE2004DABOA

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	1 pcs.

Electrical connection
Terminal strip in the terminal chamber:
Connection



1

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