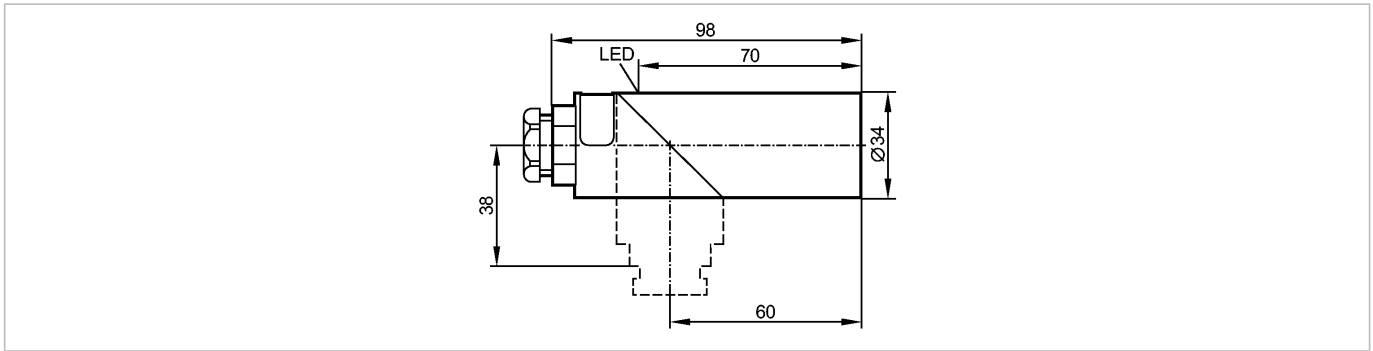


IB5124

IBE2020-FRKG

Inductive sensors



Product characteristics

| |
|---|
| Inductive sensor |
| Plastic housing Ø 34 mm |
| Terminals |
| Sensing range 20 mm; [nf] non-flush mountable |

Electrical data

| | |
|-----------------------------|------------|
| Electrical design | DC PNP/NPN |
| Operating voltage [V] | 10...55 DC |
| Protection class | II |
| Reverse polarity protection | yes |

Outputs

| | |
|---------------------------|-------------------------------------|
| Output function | normally open / closed programmable |
| Voltage drop [V] | < 4.6 |
| Minimum load current [mA] | 4 |
| Leakage current [mA] | < 1 |
| Current rating [mA] | 300 |
| Short-circuit protection | yes (non-latching) |
| Overload protection | yes |
| Switching frequency [Hz] | 300 |

Monitoring range

| | |
|------------------------------|-----------|
| Sensing range [mm] | 20 |
| Real sensing range (Sr) [mm] | 20 ± 10 % |
| Operating distance [mm] | 0...16.2 |

Accuracy / deviations

| | |
|------------------------------|---|
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2 |
| Hysteresis [% of Sr] | 1...15 |
| Switch-point drift [% of Sr] | -10...10 |

Environment

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection | IP 65 |

Tests / approvals

| | |
|--------------|-----------------------------------|
| EMC | EN 60947-5-2 EN 55011: class B |
| MTTF [Years] | 1647 |

Mechanical data

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| | |
|-------------------|-----------------------------|
| Mounting | non-flush mountable |
| Housing materials | PBT; end cap: polycarbonate |
| Weight [kg] | 0.182 |

Displays / operating elements

| | | |
|--------------------------|-----|--------|
| Output status indication | LED | yellow |
|--------------------------|-----|--------|

Electrical connection

| | |
|------------|---|
| Connection | terminals up to 2.5 mm ² ; cable diameter 7...13 mm, cable gland M20 x 1.5 |
|------------|---|

Wiring



Accessories

| | |
|------------------------|----------------|
| Accessories (included) | Mounting clamp |
|------------------------|----------------|

Remarks

| | |
|-----------------------|---|
| Pack quantity [piece] | 1 |
|-----------------------|---|