



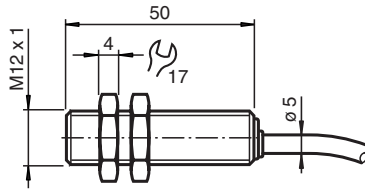
Inductive analog sensor 3RG4612-0NB00-PF

- Analog output 1 mA ... 5 mA / 0 V ... 5 V
- 0...6 mm quasi flush

Inductive analog sensor with current output or voltage output



Dimensions



Technical Data

General specifications

| | | |
|-------------------|--|--|
| Output type | Analog current output or analog voltage output | |
| Installation | quasi flush | |
| Output polarity | DC | |
| Measurement range | 0 ... 6 mm | |
| Output type | 4-wire | |

Nominal ratings

| | | |
|--------------------------------|-------|--|
| Installation conditions | | |
| A | | 2 mm |
| B | | 6 mm |
| C | | 18 mm |
| F | | 30 mm |
| Operating voltage | U_B | 10 ... 30 V , residual ripple 20 % U_B |
| Limit frequency (3dB) | | 1000 Hz |
| Reverse polarity protection | | yes |
| Short-circuit protection | | yes |
| Repeat accuracy | | 0 ... 10 μ m |
| No-load supply current | I_0 | \leq 10 mA |
| Time delay before availability | t_v | \leq 50 ms |

Analog output

| | |
|-------------|------------------------|
| Output type | 1 ... 5 mA / 0 ... 5 V |
|-------------|------------------------|

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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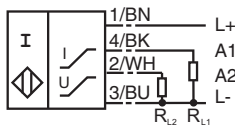
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PF PEPPERL+FUCHS

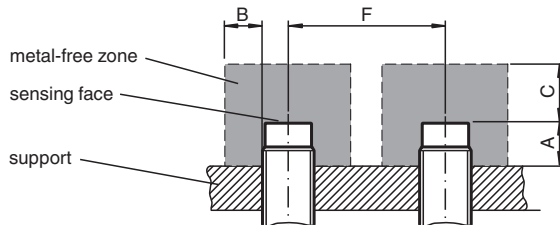
Technical Data

| | |
|----------------------------------|--|
| Load resistor | Current output A2: $\leq 1000 \Omega$ ($U_B = 10 \text{ V}$) / $\leq 5000 \Omega$ ($U_B = 30 \text{ V}$) |
| Load current | Voltage output A1: $\leq 10 \text{ mA}$ |
| Standard conformity | |
| EMC in accordance with | IEC 60947-5-2: 1kV IEC 61000-4-2: Level 2 IEC 61000-4-3: Level 3 IEC 61000-4-4: Level 2 |
| Shock resistance | IEC 60947-5-2/7.4 |
| Ambient conditions | |
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Temperature drift | $\leq \pm 5\%$ (0 ... 70 °C) $\leq \pm 10\%$ (-25 ... 0 °C) |
| Mechanical specifications | |
| Connection type | cable PUR 4 x 0.25 mm ² /128 x 0.05 mm Ø, L = 2 m |
| Housing material | chromium plated brass |
| Sensing face | PBT |
| Degree of protection | IP67 |
| Mass | 77 g |

Connection

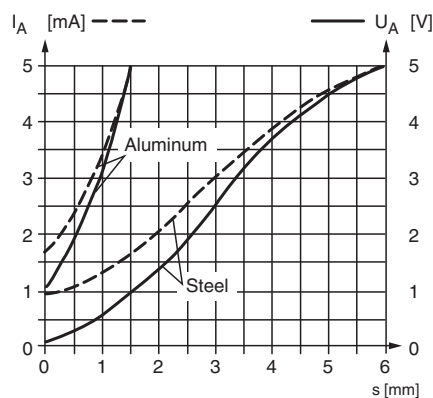


Installation



Characteristic Curve

Output characteristics



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