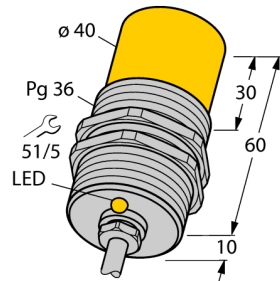


**Inductive sensor
NI25-G47-AP4X**



- Threaded barrel, PG36
- Chrome-plated brass
- DC 3-wire, 10...65 VDC
- NO contact, PNP output
- Cable connection

Wiring Diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

| | |
|---|---|
| Type designation | NI25-G47-AP4X |
| Ident no. | 15646 |
| Rated switching distance Sn | 25 mm |
| Mounting conditions | Non-flush |
| Secured operating distance | ≤ (0,81 x Sn) mm |
| Correction factors | St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4 |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | 3...15 % |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...65 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 200 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test voltage | ≤ 0.5 kV |
| Short-circuit protection | yes/ Cyclic |
| Voltage drop at I ₀ | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Output function | 3-wire, NO contact, PNP |
| Reverse polarity protection | Complete |
| Switching frequency | 0.1 kHz |
| Design | Threaded barrel, G47 |
| Dimensions | 70 mm |
| Housing material | Metal, CuZn, Chrome-plated |
| Active area material | Plastic, PA12-GF30 |
| End cap | Plastic, PA66-GF25 |
| Max. tightening torque housing nut | 90 Nm |
| Electrical connection | Cable |
| Cable quality | 6.3 mm, LiÖflex, Öflex®, 2m |
| Cable cross section | 3 x 0.5 mm ² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 2283 years acc. to SN 29500 (Ed. 99) 40 °C |

Inductive sensor NI25-G47-AP4X

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| | |
|------------|----------------|
| Distance D | $3 \times B$ |
| Distance W | $3 \times S_n$ |
| Distance T | $3 \times B$ |
| Distance S | $1.5 \times B$ |
| Distance G | $6 \times S_n$ |
| Distance N | 40 mm |

Diameter active area B $\varnothing 47$ mm

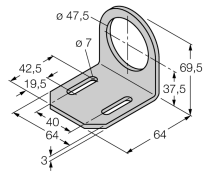


Inductive sensor NI25-G47-AP4X

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Accessories

| Type code | Ident no. | Description | |
|-----------|-----------|--|---|
| MW 47 | 69452 | Mounting bracket; material: Steel plate, zinc-plated |  |