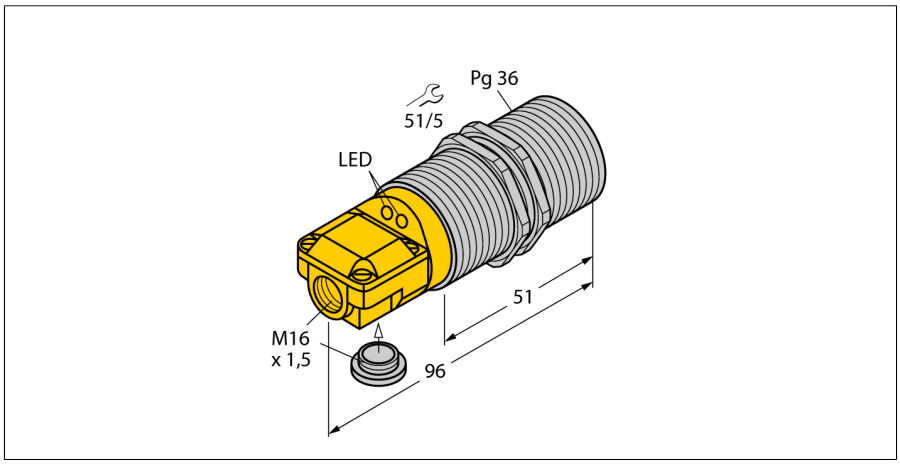
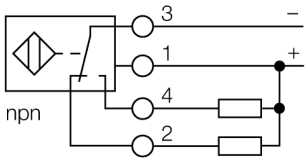
Inductive sensor
BI25-G47SR-VN4X2 W/M16X1.5



- **2 cable entries (axial, radial)**
- **Threaded barrel, Pg36**
- **Chrome-plated brass**
- **DC 4-wire, 10…65 VDC**
- **Changeover contact, NPN output**
- **Terminal chamber**

Wiring Diagram



Type designation	BI25-G47SR-VN4X2 W/M16X1.5
Ident-No.	15748
Rated switching distance Sn	25 mm
Mounting conditions	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_e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	4-wire, Complementary contact, NPN
Switching frequency	0.1 kHz
Design	Threaded barrel,G47
Dimensions	96 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PA12-GF30
Max. tightening torque housing nut	90 Nm
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
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
Power-on indication	LED,Green
Switching state	LED,Yellow
Included in delivery	cable gland, blanking plug

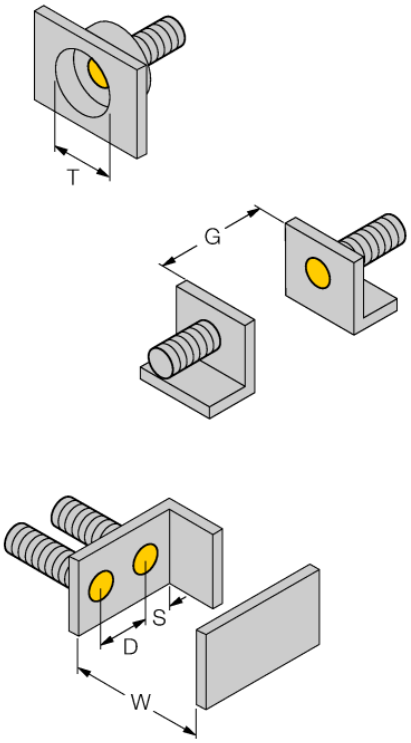
Functional principle

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.

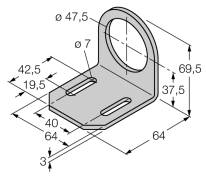
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Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn

Diameter active area B	Ø 47 mm



Accessories

Type code	Ident-No.	Description	
MB-47	69452	Mounting bracket; material: Steel plate, zinc-plated	

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