Inductive sensor
Bi10-Q14-AD4X 7M
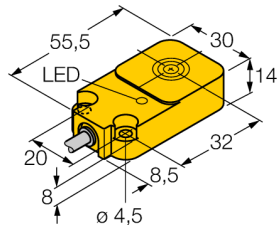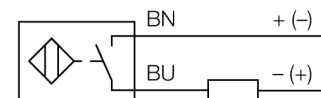

- **Rectangular, height 14 mm**
- **Active face on top**
- **Plastic, PBT-GF30-V0**
- **DC 2-wire, 10…65 VDC**
- **NO contact**
- **Cable connection**

Wiring diagram

Type	Bi10-Q14-AD4X 7M
Ident-No.	4414561

Rated operating distance Sn	10 mm
Mounting condition	flush
Assured sensing range	$\leq (0{,}81 \times Sn)$ mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperaturdrift	10 %
Hysteresis	1…15 %
Ambient temperature	-25…+70 °C

Operating voltage	10…65VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 5 V
Output function	2-wire, NO contact, 2-wire
Smallest operating current I_m	≤ 3 mA
Switching frequency	0.15 kHz

Design	rectangular, Q14
Dimensions	52 x 30 x 14 mm
Housing material	Plastic, PBT-GF30-V0
Connection	cable
Cable quality	5.2 mm, LifYY-11Y, PUR, 7 m
Cable cross section	2 x 0.5 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283years acc. to SN 29500 (Ed. 99) 40 °C

Switching state	LED yellow

Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

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