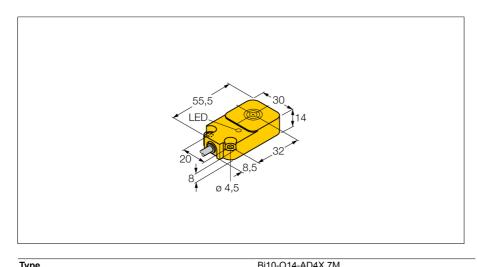
Inductive sensor Bi10-Q14-AD4X 7M

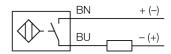




	Rectangu	lar, hei	ight 1	l4 mm
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- Active face on top
- Plastic, PBT-GF30-V0
- DC 2-wire, 10...65 VDC
- NO contact
- Cable connection

Wiring diagram



Type	BITO-Q T4-AD4A TW	
Ident-No.	4414561	
Rated operating distance Sn	10 mm	
Rated operating distance on	10 111111	
Mounting condition	flush	
A I	(0.04 0.0)	

Assured sensing range \leq (0,81 x Sn) mm Correction factors St37 = 1, V2A \sim 0

St37 = 1, V2A \sim 0.7, Ms \sim 0.4, Al \sim 0.3 \leq 2 %

Repeatability \leq 2 % Temperaturdrift 10 % Hysteresis 1...15 % Ambient temperature -25...+70 °C

 Operating voltage
 10...65VDC

 Residual ripple
 $\leq 10 \% U_{ss}$

 DC rated operational current
 $\leq 100 \text{ mA}$

 Residual current
 $\leq 0.6 \text{ mA}$

 Rated insulation voltage
 $\leq 0.5 \text{ kV}$

 Short-circuit protection
 yes/ cyclic

 Voltage drop at I.
 $\leq 5 \text{ V}$

Output function 2-wire, NO contact, 2-wire

 $\label{eq:smallest operating currentl} Smallest operating currentl_{\tiny m} $$ \le 3 \text{ mA}$ \\ Switching frequency 0.15 kHz $$

Designrectangular, Q14Dimensions52 x 30 x 14 mmHousing materialPlastic, PBT-GF30-V0

Connection cable

Cable quality 5.2 mm, LifYY-11Y, PUR, 7 m

 Cable cross section
 2 x 0.5 mm²

 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.