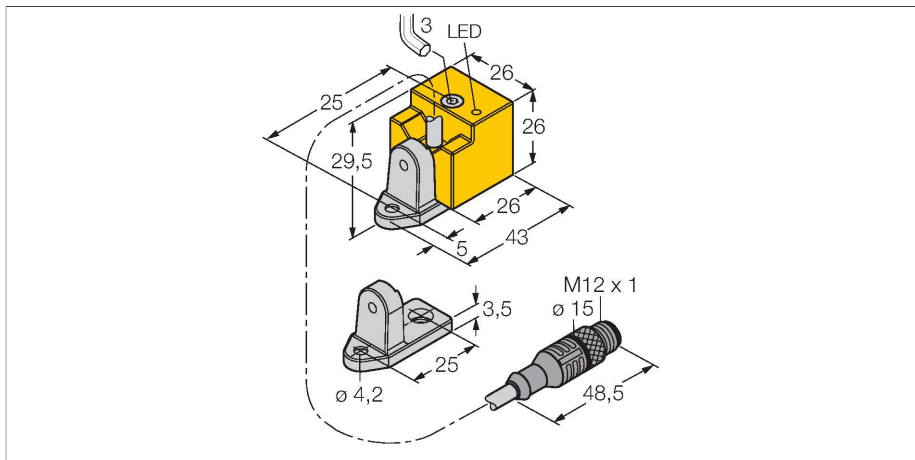


BI10-QN26-AD4X-0.15-RS4.23/S90

Inductive Sensor

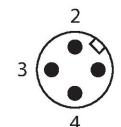
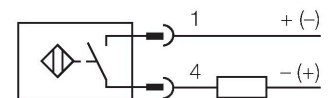


Technical data

Type	BI10-QN26-AD4X-0.15-RS4.23/S90
ID	4470224
Remark to product	For use in France, please take the version with the W/BF adapter, ident. no. 4470234
Special version	S90 corresponds to: PUR cable
General data	
Rated switching distance	10 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.81 \times S_n) \text{ mm}$
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
Hysteresis	1...15 %
Electrical data	
Operating voltage	10...65 VDC
Residual ripple	$\leq 10 \% U_{ss}$
DC rated operational current	$\leq 100 \text{ mA}$
Residual current	$\leq 0.6 \text{ mA}$
Isolation test voltage	$\leq 0.5 \text{ kV}$
Short-circuit protection	yes / Cyclic
Voltage drop at I_a	$\leq 5 \text{ V}$
Wire breakage/Reverse polarity protection	Complete
Output function	2-wire, NO contact, 2-wire
Smallest operating current	$\geq 1.5 \text{ mA}$
Switching frequency	0.5 kHz

Features

- Rectangular, height 26 mm
- Variable orientation of active face in 4 directions
- Plastic, PBT-GF30-V0
- High luminance LED
- DC 2-wire, 10...65 VDC
- NO contact
- Cable with male end



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.

Technical data

Mechanical data	
Design	Rectangular, QN26
Dimensions	43 x 26 x 26 mm
	variable orientation of active face in 4 directions
Housing material	Plastic, PBT-GF30-V0, Yellow
Active area material	Plastic, PBT-GF30-V0, yellow
Material coupling nut	metal, CuZn
Electrical connection	Cable with connector, M12 × 1
Cable quality	Ø 4.4 mm, LifYY-11Y, PUR, 0.15 m
Core cross-section	2 x 0.34 mm ²
Environmental conditions	
Ambient temperature	-25...+70 °C
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
Switching state	LED, Yellow
Included in delivery	turning angle

