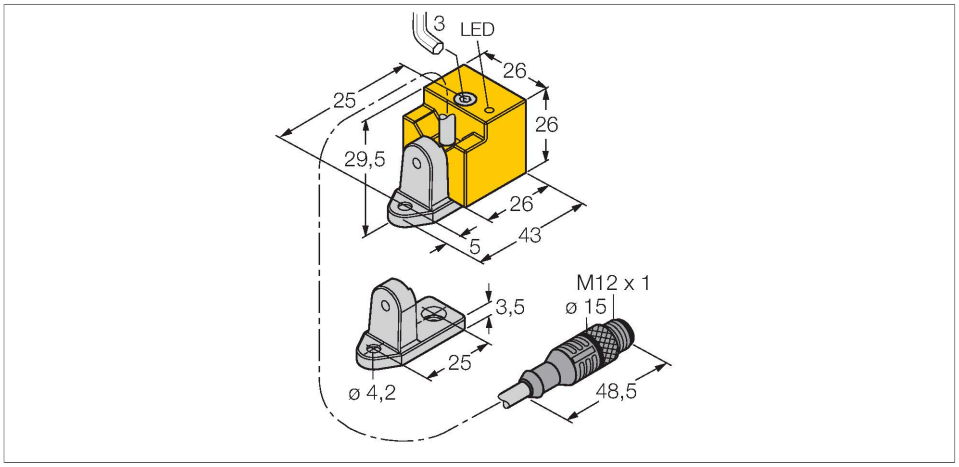
BI10-QN26-AD4X-0.15-RS4.23/S90
Inductive Sensor

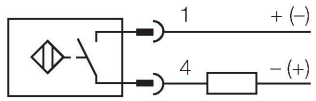


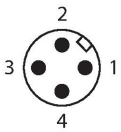
Technical data

Type	BI10-QN26-AD4X-0.15-RS4.23/S90
Ident. no.	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: proximity sensors with PUR cable
Rated switching distance	10 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × 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	1…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…65 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I_e	≤ 5 V
Wire breakage/Reverse polarity protection	Complete
Output function	2-wire, NO contact, 2-wire
Smallest operating current	≥ 1.5 mA

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.

BI10-QN26-AD4X-0.15-RS4.23/S90 09/09/2020 15-44 | technical changes reserved

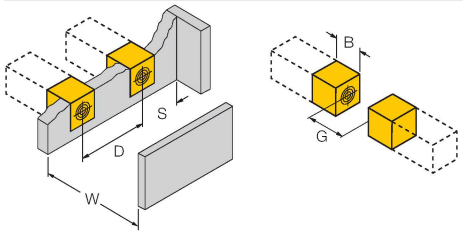
Technical data

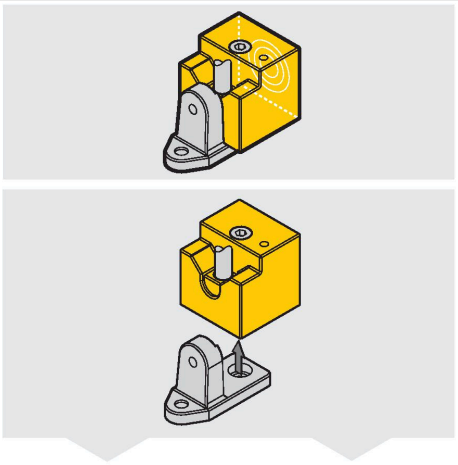
Switching frequency	0.5 kHz
Design	Rectangular, QN26
Dimensions	43 x 26 x 26 mm
	variable orientation of active face in 4 directions
Housing material	Plastic, PBT-GF30-V0, Yellow
Active area material	Plastic, PBT-GF30-V0, yellow
Material coupling nut	metal, CuZn
Electrical connection	Cable with connector, M12 × 1
Cable quality	Ø 4.4 mm, LifYY-11Y, PUR, 0.15 m
Core cross-section	2 x 0.34 mm^2
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

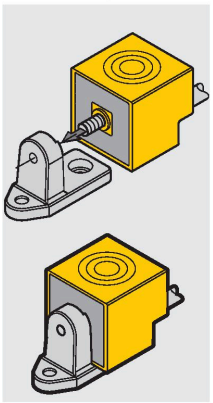
BI10-QN26-AD4X-0.15-RS4.23/S90 09/09/2020 15-44 | technical changes reserved

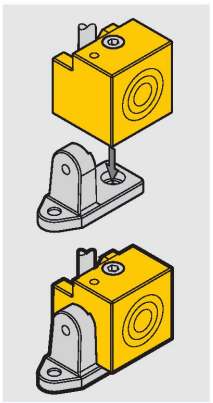
Mounting instructions

Mounting instructions/Description









Distance D	3 x B
Distance W	3 x Sn
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	1 x B
Width active area B	26 mm

Screwed on acc. to
DIN 6912 Allen screw
M4 x 30 included in scope of supply.
DIN 84 slotted screw
Not included in scope of supply.

BI10-QN26-AD4X-0.15-RS4.23/S90| 09/09/2020 15-44 | technical changes reserved