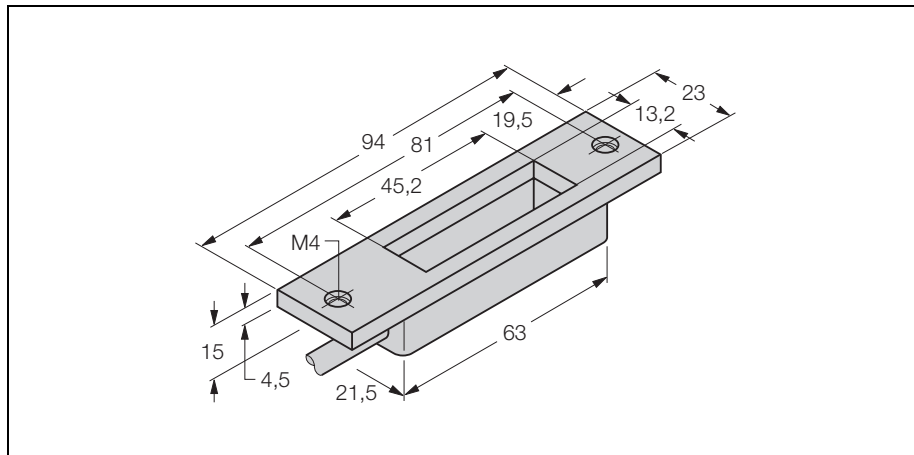
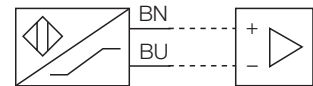


## Inductive sensor as electronic door switch Bi6R-TS1-YO



- Door switch, 23 mm height
- Plastic, PBT-GF30-V0
- Ring sensor for mounting in locking plate
- Active zone in ring sensor for detection of locking bar
- For using in ex-areas with connection to switch amplifier with intrinsically safe input circuits
- 2-wire DC, nom. 8.2 VDC
- output according to DIN EN 60947-5-6 (NAMUR)
- cable connection

### Wiring diagram



### Function principles

Inductive sensors serve for wear-free and non contact detection of metal objects. They operate with a high frequency electromagnetic AC field which interacts with the target. With conventional sensors, this field is generated by a LC-resonance circuit with a ferrite core coil.

<b>Type</b>	Bi6R-TS1-YO
Ident-No.	1400701
<b>Mounting mode</b>	flush
Hysteresis H	1... 10 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operation temperature	-25...+ 70 °C
<b>Voltage</b>	nom. 8,2 VDC
Current consumption (off-state)	≥ 2,1 mA
Current consumption (on-state)	≤ 1,2 mA
Max. switching frequency	≤ 0,5 kHz
Output function	2-wire, NAMUR
<b>Housing style</b>	ring sensor; TS1
Dimensions	94 x 23 x 15 mm
Housing material	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 4, LiYY, PVC, 2 m
Cable cross section	2 x 0,25 mm <sup>2</sup>
Coil form	Plastic, PBT GF30
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67