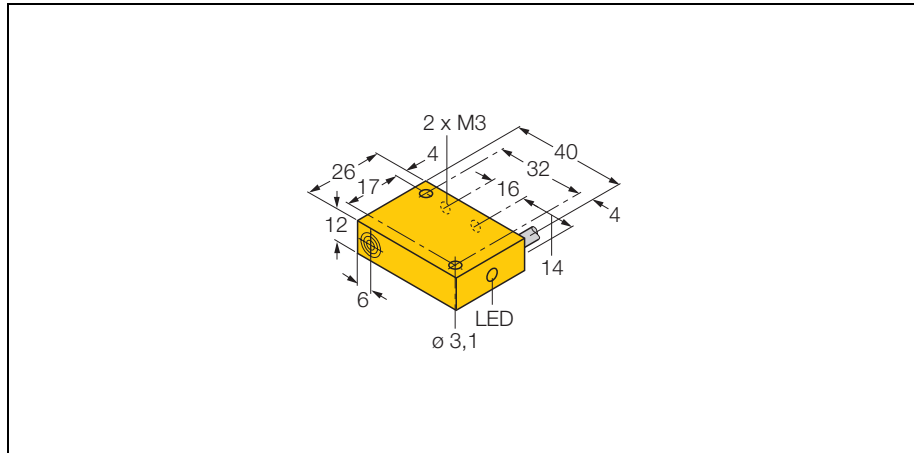


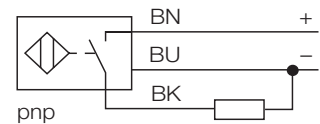
## Inductive sensor

### Bi2-Q12-AP6X



- rectangular, height 12mm
- side active face
- plastic, PBT-GF30-V0
- 3-wire DC, 10...30 VDC
- normally open pnp output
- cable connection

#### Wiring diagram



#### Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

<b>Type</b>	Bi2-Q12-AP6X
Ident-No.	16093
<b>Rated operating distance <math>S_n</math></b>	2 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ... + 70 °C
<b>Rated operational voltage (DC) <math>U_B</math></b>	10... 30 VDC
Max. ripple	≤ 10 % $U_{pp}$
Rated operational current (DC) $I_e$	≤ 200 mA
No-load current $I_0$	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 2 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at $I_e$	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
<b>Housing style</b>	rectangular; Q12
Dimensions	40 x 26 x 12 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 5,2, LifYY, PVC, 2 m
Cable cross section	3 x 0,34 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
<b>Switching status indication</b>	LED yellow

## Inductive sensor

### Bi2-Q12-AP6X

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<b>Mounting instructions</b>	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn

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**Width of active face B** 12 mm

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