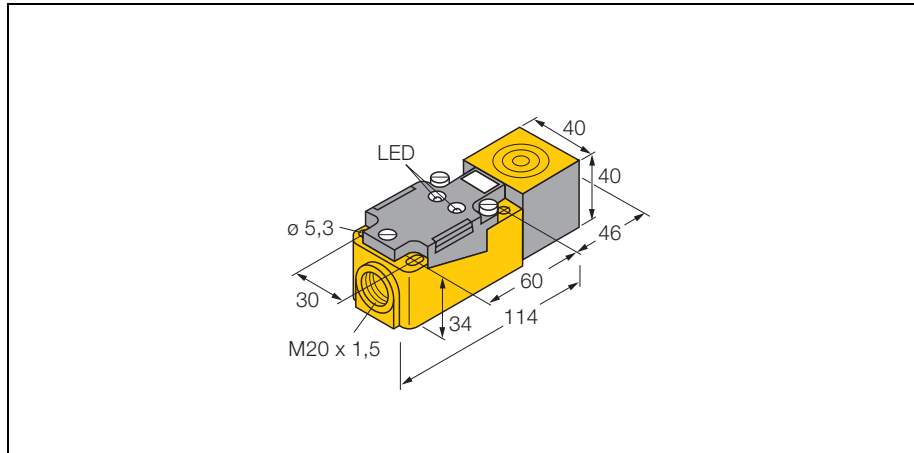
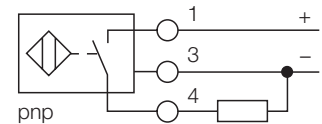


## Inductive sensor magnetic-field immune Bi15-CP40-AP6X2/S34



- rectangular, height 40 mm
- plastic, PBT-GF30-V0
- magnetic-field immunity (welding resistance) to AC and DC fields
- 3-wire DC, 10...30 VDC
- normally open pnp output
- terminal chamber

### 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. Magnetic field sensors incorporate a special ferrite core which make them immune to magnetic AC and DC fields. They may thus be used in welding applications.

<b>Type</b>	Bi15-CP40-AP6X2/S34
Ident-No.	16542
<b>Rated operating distance <math>S_n</math></b>	15 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ... + 70 °C
<b>Rated operational voltage (DC) <math>U_B</math></b>	10... 30 VDC
Max. ripple	$\leq 10 \%$ $U_{pp}$
Rated operational current (DC) $I_e$	$\leq 200$ mA
No-load current $I_0$	$\leq 15$ mA
Max. OFF-state current	$\leq 0,1$ mA
Max. switching frequency	$\leq 0,15$ kHz
Rated insulation voltage	$\leq 0,5$ kV
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at $I_e$	$\leq 1,8$ V
Wire breakage / reverse polarity protection	yes / complete
<b>Housing style</b>	rectangular; CP40
Dimensions	114 x 40 x 40 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	terminal chamber
Clamping ability	$\leq 2,5$ mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
<b>Supply voltage indication</b>	LED green
Switching status indication	LED yellow

## Inductive sensor magnetic-field immune Bi15-CP40-AP6X2/S34

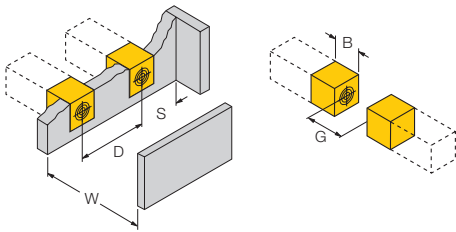
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<b>Mounting instructions</b>	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn

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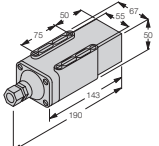
<b>Width of active face B</b>	40 mm
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## Inductive sensor magnetic-field immune Bi15-CP40-AP6X2/S34

### Accessories

Typ	Ident-No.	Description	Dimension drawing
SG40	69500	protective housing; housing material: PA (per UL94/V-2); cover: PBT-GF30; for harsh environments; protection degree IP68, 5 m w.g.	
JS 025/037	69429	mounting rail; material: VA 1.4301	