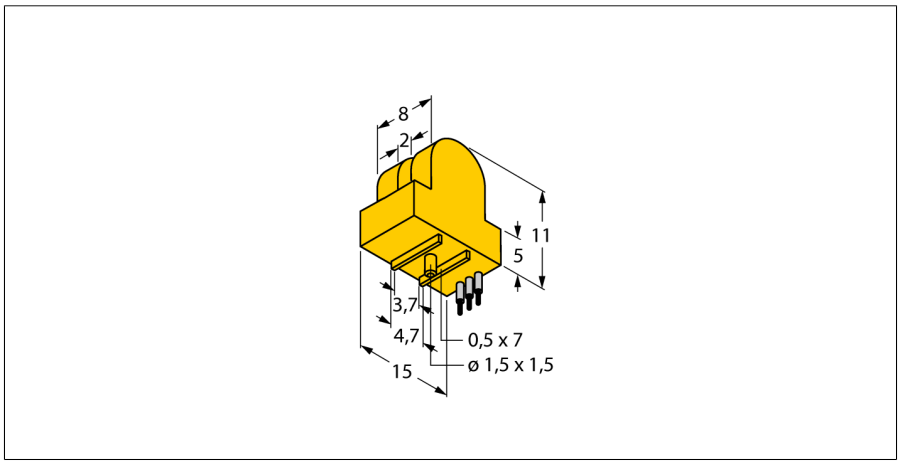
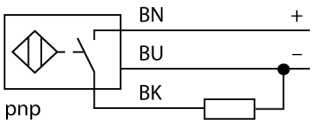
Inductive sensor
slot-type
SI2-K08-AP7



- **Slot sensor, height 8 mm**
- **Plastic, polypropylene**
- **Mechanical end stop, removable, for analog pointer instruments**
- **3-wire DC, 10…30 VDC**
- **NO contact, PNP output**
- **Cable connection**

Wiring diagram



Type code	SI2-K08-AP7
Ident no.	1719501
Slot width	2 mm
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 10 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.075 kV
Short-circuit protection	no
Voltage drop at I_e	≤ 1.5 V
Wire breakage / Reverse polarity protection	yes/ yes (voltage supply)
Output function	3-wire, NO contact, PNP
Switching frequency	1 kHz
Design	slot sensor, K08
Dimensions	11 x 15 x 8 mm
Housing material	plastic, PP
Material active area	Plastic, PP
Connection	cable
Cable quality	0.8 mm, Lif91Y, TPE-O, 0.5 m
Cable cross section	1 x 0.1 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

Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

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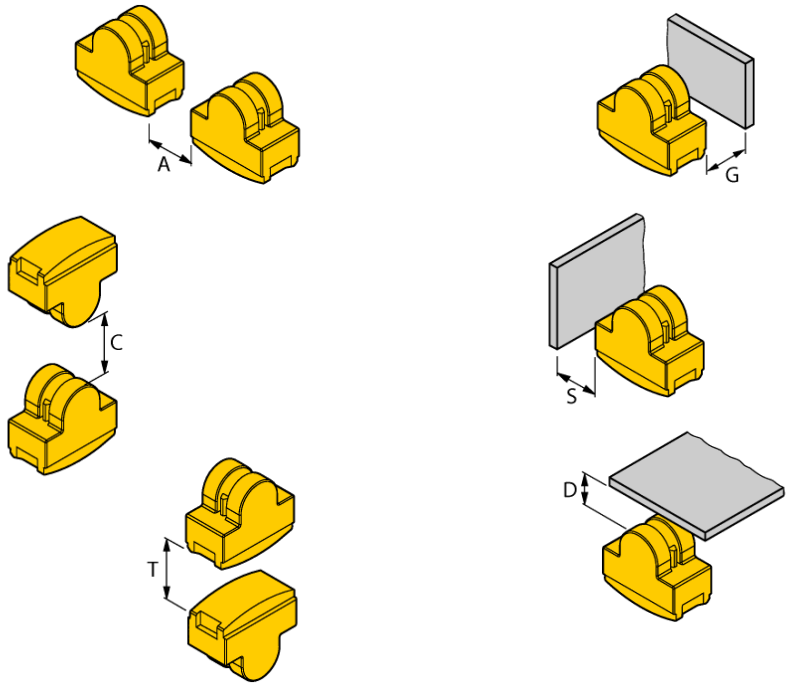
Distance D	0 mm
Distance T	5 mm
Distance S	0 mm
Distance G	1 mm
Distance A	15 mm
Distance C	15 mm



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