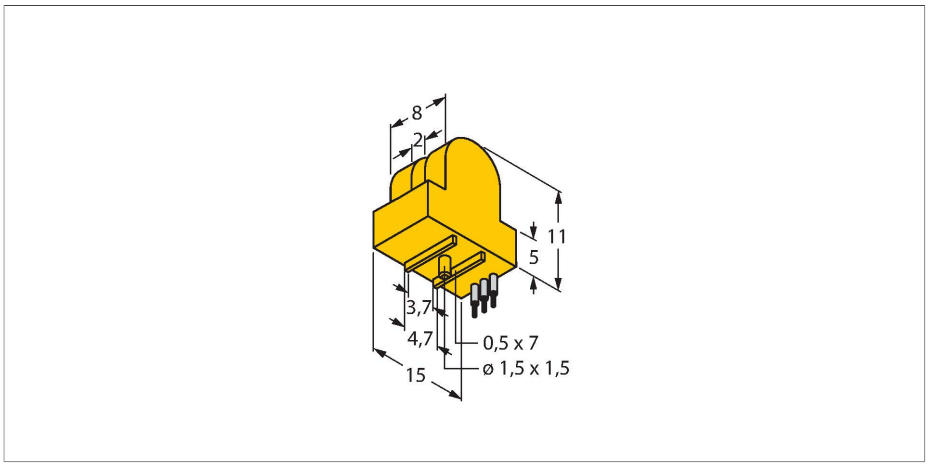
SI2-K08-AP6
Inductive Sensor – Slot-type



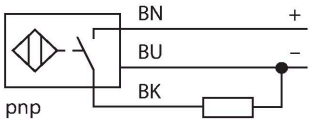
Technical data

Type	SI2-K08-AP6
ID	1605500
General data	
Slot width	2 mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	3…15 %
Electrical data	
Operating voltage U_B	10…30 VDC
Ripple U_{ss}	≤ 10 % U_{Bmax}
DC rated operating current I_e	≤ 100 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.075 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
Switching frequency	1 kHz
Mechanical data	
Design	Slot sensor, K08
Dimensions	11 x 15 x 8 mm
Housing material	Plastic, PP
Active area material	Plastic, PP
Electrical connection	Stranded wires
Cable quality	LifYW, PVC, 0.32 m
Core cross-section	3 x 0.08 mm^2

Features

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

Wiring diagram



Functional principle

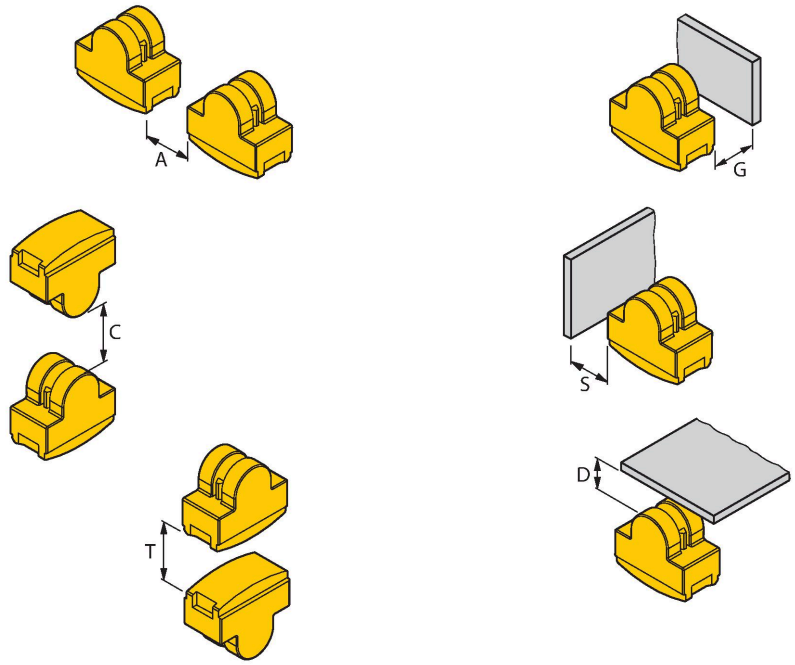
Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

Technical data

Environmental conditions	
Ambient temperature	-25…+70 °C
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

Mounting instructions

Mounting instructions/Description



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