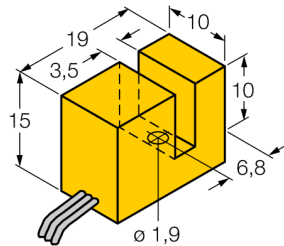


**Inductive sensor
slot-type
SI3,5-K10-AP6X**

TURCK

Industrial
Automation



- Slot sensor, height 10 mm
- Plastic, PBT-GF30-V0
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Cable 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.

Type code	SI3,5-K10-AP6X
Ident no.	1650001
Slot width	3.5 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 _s
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	2 kHz
Design	slot sensor, K10
Dimensions	19 x 15 x 10 mm
Housing material	plastic, PBT
Material active area	Plastic, PBT
Connection	cable
Cable quality	1.1 mm, LiYV, PVC, 0.5 m
Litz wire	3x0.14mm 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
Switching state	LED yellow
Included in scope of supply	1 x M1,8 x 10 (DIN963A)

**Inductive sensor
slot-type
SI3,5-K10-AP6X**

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

