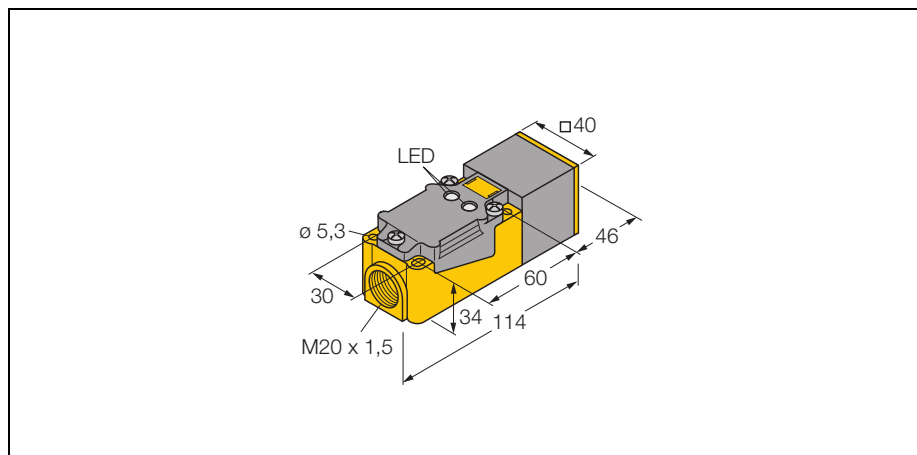


Inductive sensor Ni35-CP40-FZ3X2

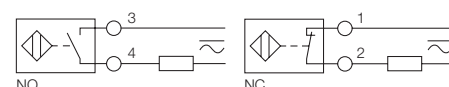
TURCK

Industrial
Automation



- rectangular, height 40 mm
- variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- AC 2-wire, 20...250 VAC
- 2-wire DC, 10...300 VDC
- connection programmable (n.c./n.o.)
- Terminal chamber

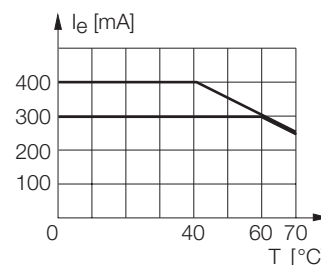
Wiring diagram



Functional principle

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

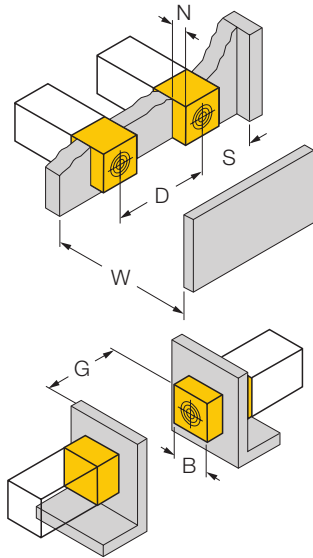
Type	Ni35-CP40-FZ3X2
Ident-No.	13403
Rated operating distance Sn	35 mm
Mounting condition	non-flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	20... 250VAC
Operating voltage	10... 300VDC
AC rated operational current	400 mA
DC rated operational current	300 mA
Frequency	50... 60 Hz
Residual current	1.7 mA
Rated insulation voltage	1.5 kV
Surge current	8 A (10 ms max. 5 Hz)
Voltage drop at I _e	6V
Output function	2-wire, connection programmable
Smallest operating current I _m	≥ 3 mA
Switching frequency	0.02 kHz
Housing	rectangular, CP40
Dimensions	114 x 40 x 40 mm variable orientation of active face in 9 directions
Housing material	plastic, PBT-GF30-V0, black
Material active face	plastic, PBT-GF30-V0, yellow
Connection	Terminal chamber
Clamping ability	2.5mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED red



**Inductive sensor
Ni35-CP40-FZ3X2**

Mounting instructions	minimum distances
Distance D	4,5 x B
Distance W	3 x Sn
Distance S	1,5 x B
Distance G	6 x Sn
Distance N	1 x B

Width of the active face B 40 mm



Inductive sensor Ni35-CP40-FZ3X2

TURCK

Industrial
Automation

Accessories

Type code	Ident-No.	Short text	Dimension drawing
STRM M20X1,5 SCHWARZ	6965902	cable glands M20 x 1,5	
JS 025/037	69429	mounting rail; material: VA 1.4301	
BSS-CP40	6901318	fixing clamp; material: polypropylene	