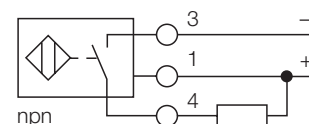


- rectangular, height 40 mm
- variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- predamping protection through self-compensation
- 3-wire DC, 10...30 VDC
- normally open npn output
- Terminal chamber

Type	Ni25U-CP40-AN6X2
Ident-No.	1623710
Rated operating distance Sn	25 mm
Mounting condition	non-flush, partial embedding possible
Assured sensing range	(0,81 x Sn) mm
Repeatability	2 %
Temperature drift	± 10 %
	± 20 %, -25 °C v ≥ +70 °C
Hysteresis	3... 15 %
Ambient temperature	-30...+ 85 °C
Operating voltage	10... 30VDC
Residual ripple	10 % U _{SS}
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 _e	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Insulation class	
Switching frequency	0.25 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, PA6-GF30-X, yellow
Connection	Terminal chamber
Clamping ability	2.5mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
Operating voltage display	LED green
Display switch state	LED yellow

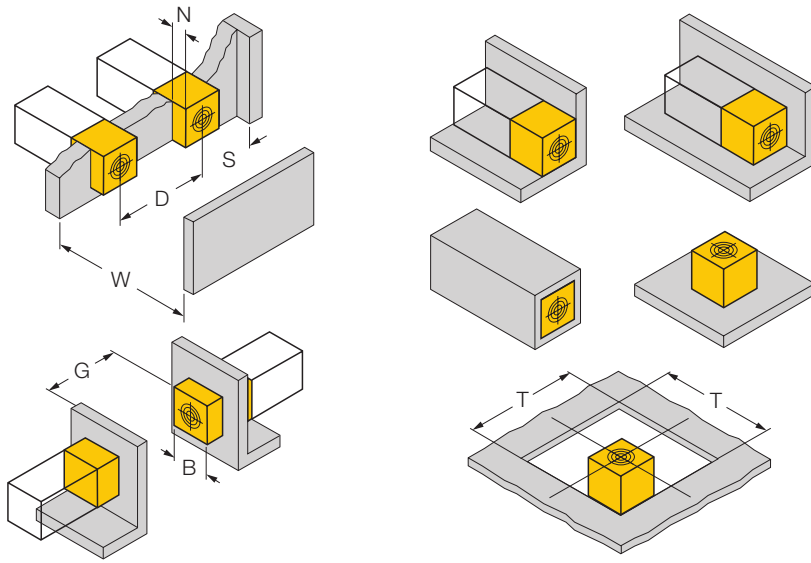
Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Mounting instructions	minimum distances
Distance D	240 MM
Distance W	75 MM
Distance T	100 MM
Distance S	20 MM
Distance G	150 MM
Distance N	30 MM
Width of the active face B	40 mm



up to 4-side flush mounting possible
 1-side flush mounting: $S_r = 22 \text{ mm}$
 2-side flush mounting: $S_r = 20 \text{ mm}$
 3-side flush mounting: $S_r = 17 \text{ mm}$
 4-side flush mounting: $S_r = 13 \text{ mm}$

back-mounting without reduction of the switching distance

recessed mounting with switching distance reduction possible

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	