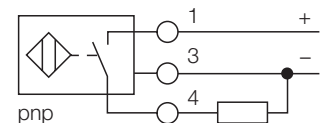


- rectangular, height 40 mm
- variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- Corner LEDs with high luminance level
- optimum visibility of operating-voltage display and switching state in any installation position
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- predamping protection through self-compensation
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- Terminal chamber

**Wiring diagram**

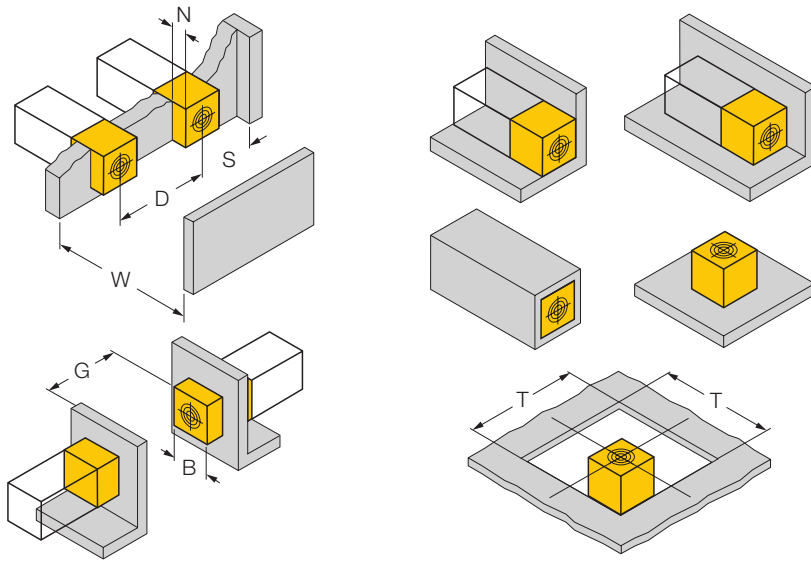


**Functional principle**

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.

<b>Type</b>	Ni25U-CP40-AP6X2
Ident-No.	1623700
<b>Rated operating distance Sn</b>	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
<b>Operating voltage</b>	10... 30VDC
Residual ripple	10 % U <sub>SS</sub>
DC rated operational current	200 mA
No-load current I <sub>0</sub>	15 mA
Residual current	0.1 mA
Rated insulation voltage	0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I <sub>e</sub>	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	
Switching frequency	0.25 kHz
<b>Housing</b>	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 <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
<b>Operating voltage display</b>	2 x LEDs green
Display switch state	2 x LED yellow

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
<b>Width of the active face B</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	