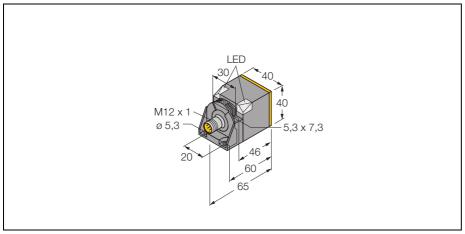


### Inductive sensor extended switching distance Ni35U-CK40-AN6X2-H1141





Туре	Ni35U-CK40-AN6X2-H1141 1625810	
Ident-No.		
Rated operating distance Sn	35 mm	
Mounting condition	non-flush, partial embedding possible	
Assured sensing range	(0,81 x Sn) mm	
Repeatability	2 %	
Temperature drift	± 10 %	
	$\pm 20 \%$ , $-25 °C v \ge +70 °C$	
Hysteresis	3 15 %	
Ambient temperature	-30+ 85 °C	
Operating voltage	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, npn	
Insulation class	o wile, nemaly epon, np.	
Switching frequency	0.25 kHz	
Housing	rectangular, CK40	
Dimensions	65 x 40 x 40 mm	
	variable orientation of active face in 5 direc-	
	tions	
Housing material	plastic, PBT-GF20-V0, black	
Material active face	plastic, PA6-GF30-X, yellow	
Connection	connectors, M12 x 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30g (11 ms)	
Degree of protection	IP68	

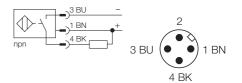
2 x LEDs green

2 x LED yellow

BS4-CK40

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- Optimum visibility of operatingvoltage display and switching state in any installation position
- factor 1 for all metals
- extended switching distance
- 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
- connector, M12 x 1

### 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.

Operating voltage display

Included in scope of supply

Display switch state



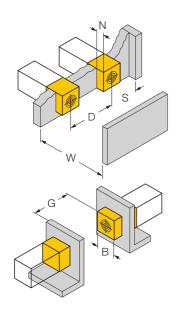
## Inductive sensor extended switching distance Ni35U-CK40-AN6X2-H1141

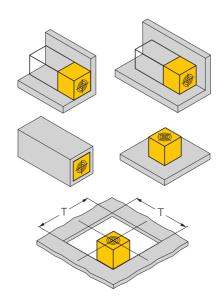


Mounting instructions	minimum distances
Distance D	120 мм
Distance W	105 мм
Distance T	140 мм
Distance S	60 мм
Distance G	210 мм
Distance N	30 мм

Width of the active face B

40 mm





up to 4-side flush mounting possible 1-side flush mounting: Sr = 28 mm 2-side flush mounting: Sr = 24 mm 3-side flush mounting: Sr = 19 mm 4-side flush mounting: Sr = 12 mm

back-mounting without reduction of the switching distance.

Recessed mounting with switching distance reduction possible.

The values stated relate to 1 mm thick steel plate.



# Inductive sensor extended switching distance Ni35U-CK40-AN6X2-H1141



### **Accessories**

Type code	Ident-	Short text	Dimension drawing
No.	No.		
BSS-CP40	6901318	fixing clamp; material: polypropylene	51