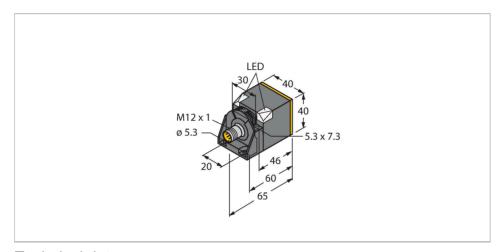


BI30U-CK40-AP6X2-H1141/S1590 W/BS4 Inductive Sensor – With Extended Switching Distance





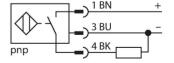
Technical data

Туре	BI30U-CK40-AP6X2-H1141/S1590 W/BS4		
ID	1625893		
Special version	S1590 Corresponds to:With WeldGuard™ Coating		
General data			
Rated switching distance	30 mm		
Mounting conditions	Flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Hysteresis	315 %		
Electrical data			
Operating voltage U _B	1030 VDC		
Ripple U _{ss}	≤ 10 % U _{Bmax}		
DC rated operating current I _e	≤ 200 mA		
No-load current	≤ 15 mA		
Residual current	≤ 0.1 mA		
Isolation test voltage	0.5 kV		
Short-circuit protection	yes/Cyclic		
Voltage drop at I _e	≤ 1.8 V		
Wire break/reverse polarity protection	yes/Complete		
Output function	3-wire, NO contact, PNP		
DC field stability	300 mT		
AC field stability	300 mT _{ss}		
Insulation class			

Features

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- High luminance corner LEDs
- ■Optimum view on supply voltage and
- switching state from any position
- Factor 1 for all metals
- ■Protection class IP68
- Resistant to magnetic fields
- ■Large coverage
- High switching frequency
- DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle



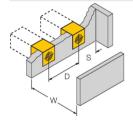
Technical data

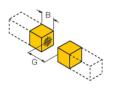
Switching frequency	0.25 kHz		
Mechanical data			
Design	Rectangular, CK40		
Dimensions	65 x 40 x 40 mm		
	variable orientation of active face in 5 directions		
Housing material	Plastic, PBT-GF20-V0, Black		
Active area material	Plastic, PA12-GF30, yellow		
Electrical connection	Connector, M12 × 1		
Environmental conditions			
Ambient temperature	-10+60 °C		
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP68		
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C		
Power-on indication	2 × LEDs, Green		
Switching state	2 × LEDs, Yellow		
Included in delivery	Fixing clamp BS4-CK40		

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Mounting instructions

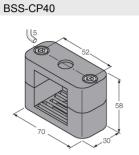
Mounting instructions/Description







		anges reserved
		C.
Distance D	80 mm	_nic
Distance W	90 mm	tech
Distance S	40 mm	-57
Distance G	180 mm	5 13_
Width active area B	40 mm	202
When installing the sens (sheet metal, e.g., a step be fully embedded in me of the target.	plate) the sensor mus	



Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene

Wiring accessories

Dimension drawing	Туре	ID	
	RKC4T-2/TEL	6625010	Connection cable, M12 female



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval