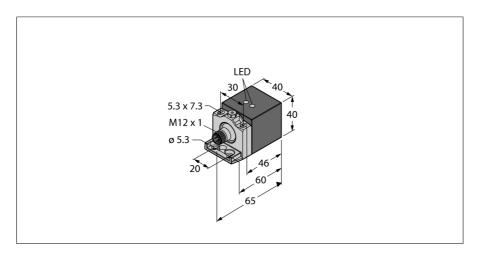


Inductive sensor With WeldGuard™ coating BI20U-CA40-AP6X2-H1141/S1590W/BS2.1





Type code	BI20U-CA40-AP6X2-H1141/S1590W/BS2.1	
Ident no.	1627295	
Rated switching distance Sn	20 mm	
Mounting conditions	flush	
Assured switching distance	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 % of full scale	
Temperature drift	≤ ± 10 %	
Hysteresis	315 %	
Ambient temperature	-30+85 °C	

,		
Operating voltage	10 30VDC	
Residual ripple	≤ 10 % U _{ss}	
DC rated operational current	≤ 200 mA	
No-load current I₀	≤ 15 mA	
Residual current	≤ 0.1 mA	
Rated insulation voltage	≤ 0.5 kV	
Short-circuit protection	yes/ cyclic	
Voltage drop at I。	≤ 1.8 V	
Wire breakage / Reverse polarity protection	yes/ complete	
Output function	3-wire, NO contact, PNP	
Protective insulation		
Switching frequency	0.25 kHz	

Construction	rectangular, CA40	
Dimensions	48 x 40 x 40 mm	
	variable orientation of active face in 5 directions	

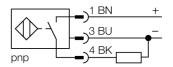
Metal, GD-AlSi 12

Housing material Connection Flange connector, M12 x 1 Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class 874 years acc. to SN 29500 (Ed. 99) 40 °C MTTF

Power-on indication LED green Switching state LED yellow BS2.1-CK40 Included in delivery

- Rectangular, height 40 mm
- Variable orientation of active face in 5 directions
- Sensor housing GD-ALSI 12
- Plastic, PA6-GF30
- 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

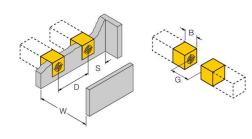
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, uprox®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.



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Distance D	2 x B	
Distance W	3 x Sn	
Distance S	1.5 x B	
Distance G	6 x Sn	
Width of the active face B	40 mm	





Inductive sensor With WeldGuard™ coating BI20U-CA40-AP6X2-H1141/S1590W/BS2.1



Accessories

Type code	Ident no.	Description	
BSS-CP40	6901318	Mounting bracket for rectangular devices; material: Polypropylene	70 30