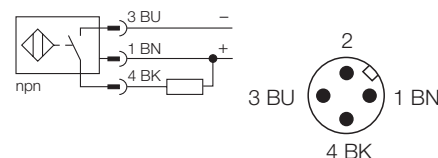


- rectangular, height 20mm
- top active face
- Plastic, PBT-GF30-V0
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

**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.

<b>Type</b>	Bi15U-Q20-AN6X2-H1141
Ident-No.	1608610
<b>Rated operating distance Sn</b>	15 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Repeatability	2 %
Temperature drift	± 10 %
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, npn
Insulation class	2
Switching frequency	0.25 kHz
<b>Housing</b>	rectangular, Q20
Dimensions	68 x 40 x 20 mm
Housing material	plastic, PBT-GF30-V0
Material active face	plastic, PBT-GF30-V0
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
<b>Operating voltage display</b>	LED green
Display switch state	LED yellow

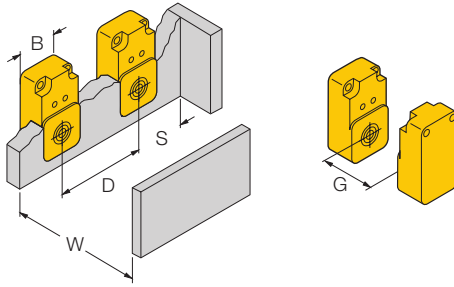
**Inductive sensor  
Bi15U-Q20-AN6X2-H11141**

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<b>Mounting instructions</b>	minimum distances
Distance D	1,5 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

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<b>Width of the active face B</b>	40 mm
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**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
MH-Q20	6950010	for mounting with active face downwards	
MW-Q14/Q20	6945006	mounting bracket; material VA 1.4301	