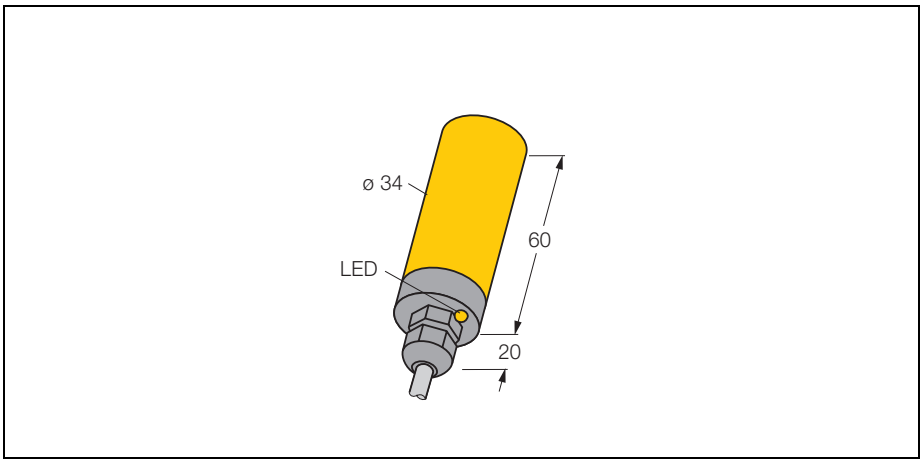
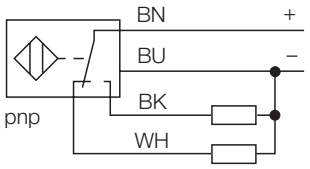
Inductive sensor

Ni20-K34-VP4X



- **smooth barrel, 34mm diameter**
- **plastic, PBT-GF30-V0**
- **4-wire DC, 10...65 VDC**
- **SPDT, pnp output**
- **cable connection**

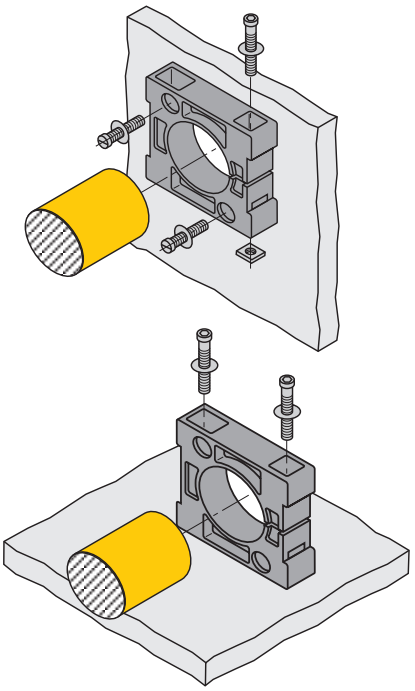
Wiring diagram



Type	Ni20-K34-VP4X
Ident-No.	1565602
Rated operating distance Sn	20 mm
Mounting mode	non-flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_e	≤ 200 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,5 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	4-wire, complementary, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	smooth barrel; 34 mm
Dimensions	80 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 5,2, LifYY, PVC, 2 m
Cable cross section	4 x 0,34 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow
Included with sensor	BS34.1, 2 screws M5

Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.



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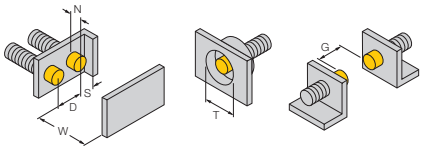
Mounting instructions	minimum gap
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn
Gap N	20 mm
Diameter of active face B	Ø 34 mm



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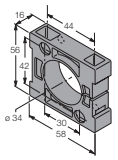
Accessories

Typ	Ident-No.	Description	Dimension drawing
BS34.1	6946010	fixing clamp: mounting block material (PBT-GF20-V0); dimensions (58 mm x 56 mm x 16 mm), included in delivery (2 M5 screws for base mounting)	
BS34.1-WMS	6946009	screw set for wall mounting	

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