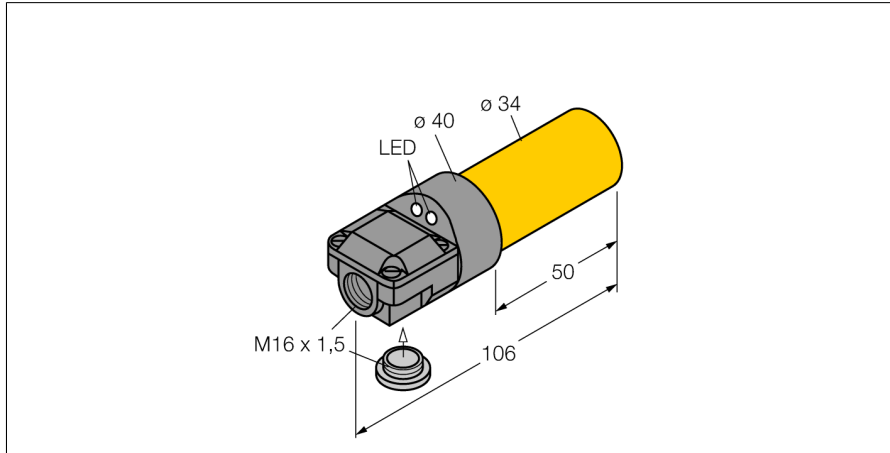
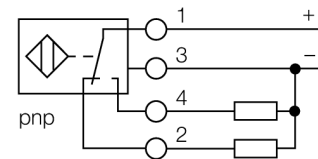


# Inductive Sensor NI20-K34SR-VP4X2



- 2 cable entries (axial, radial)
- Smooth barrel, Ø 34 mm
- Plastic, PBT-GF30-V0
- DC 4-wire, 10...65 VDC
- Changeover contact, PNP output
- Terminal chamber

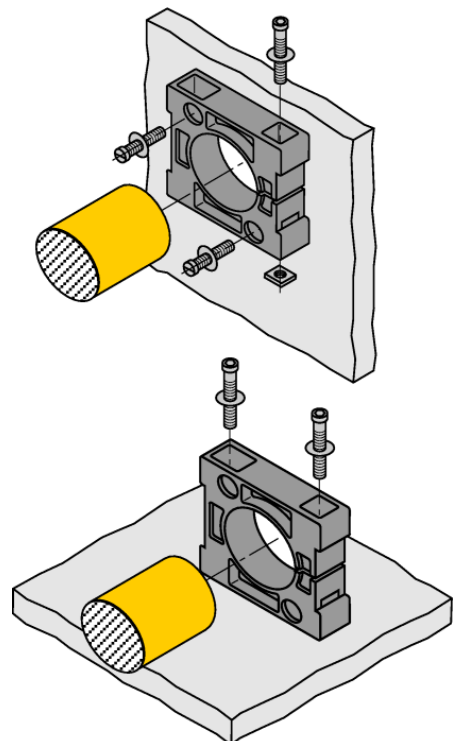
### Wiring Diagram



Type	NI20-K34SR-VP4X2
ID	1565601
<b>General data</b>	
Rated switching distance $S_n$	20 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	3...15 %
<b>Electrical data</b>	
Operating voltage	10...65 VDC
Residual ripple	$\leq 10\% U_{s0}$
DC rated operational current	$\leq 200$ mA
Residual current	$\leq 0.1$ mA
Isolation test voltage	$\leq 0.5$ kV
Short-circuit protection	yes/ Cyclic
Voltage drop at $I_n$	$\leq 1.8$ V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	4-wire, Complementary contact, PNP
Switching frequency	0.5 kHz
<b>Mechanical data</b>	
Design	Smooth barrel, 34 mm
Dimensions	106 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	Plastic, PBT-GF30-V0
Electrical connection	Terminal chamber
Clamping ability	$\leq 2.5$ mm <sup>2</sup>
<b>Environmental conditions</b>	
Ambient temperature	-25...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C

### Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.



Power-on indication	LED, Green
Switching state	LED, Yellow
Included in delivery	BS34.1, 2 M5 screws, cable gland, blanking plugs

**Accessories**

Type code	Ident no.		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)	