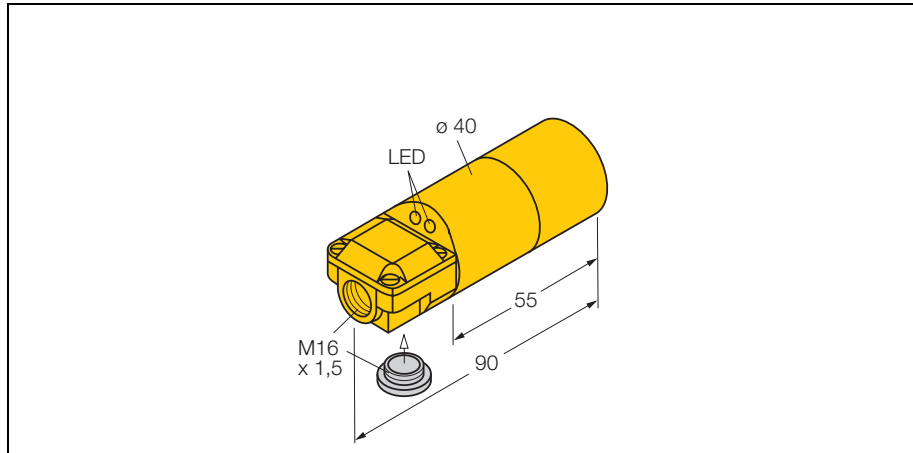


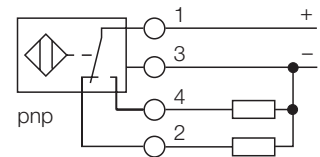
Inductive sensor

Ni20-K40SR-VP4X2



- 2 cable entries (axial, radial)
- smooth barrel, 40 mm diameter
- plastic, ABS
- 4-wire DC, 10...65 VDC
- SPDT, pnp output
- terminal chamber

Wiring diagram



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.

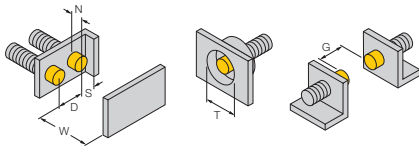
Type	Ni20-K40SR-VP4X2
Ident-No.	15656
Rated operating distance Sn	20 mm
Mounting mode	non-flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U _{pp}
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	≤ 0,1 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; 40 mm
Dimensions	90 mm
Housing material	plastic, ABS
Active face	plastic, ABS
Wiring	terminal chamber
Clamping ability	≤ 2,5 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow
Included with sensor	BS40, blind plug

Inductive sensor

Ni20-K40SR-VP4X2

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	2 x Sn

Diameter of active face B	Ø 40 mm
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Inductive sensor

Ni20-K40SR-VP4X2