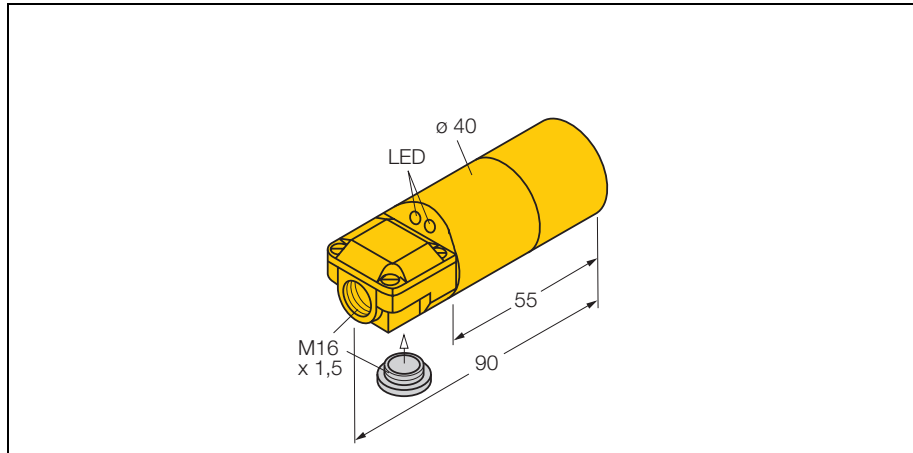


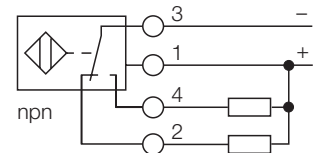
Inductive sensor

Ni20-K40SR-VN4X2



- 2 cable entries (axial, radial)
- smooth barrel, 40 mm diameter
- plastic, ABS
- 4-wire DC, 10...65 VDC
- SPDT, npn 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-VN4X2
Ident-No.	15756
Rated operating distance S_n	20 mm
Mounting mode	non-flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ... + 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	$\leq 10 \% U_{pp}$
Rated operational current (DC) I_e	$\leq 200 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Max. OFF-state current	$\leq 0,1 \text{ mA}$
Max. switching frequency	$\leq 0,1 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Output function	4-wire, complementary, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 1,8 \text{ V}$
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	$\leq 2,5 \text{ mm}^2$
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

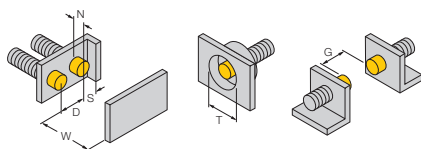
Ni20-K40SR-VN4X2

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



Inductive sensor

Ni20-K40SR-VN4X2