NI15-P30SR-VN4X2
Inductive Sensor

M30 x 1,5
36/10
ø 40
LED
61
115
M16 x 1,5
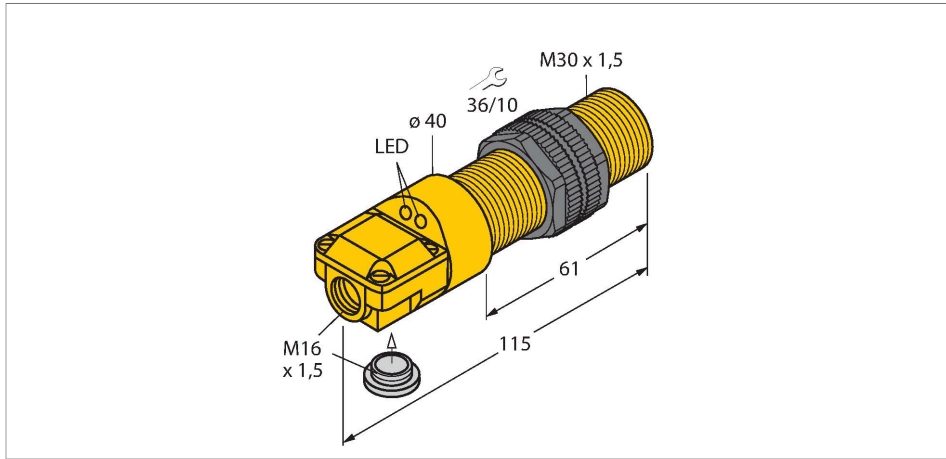
Features

■ 2 cable entries (axial, radial)
■ Threaded barrel, M30 x 1.5
■ Plastic, ABS
■ DC 4-wire, 10…65 VDC
■ Changeover contact, NPN output
■ Terminal chamber

Wiring diagram

npn 3 1 4 2 − +

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.
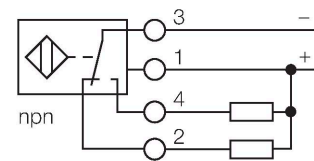
Technical data

Type	NI15-P30SR-VN4X2
Ident. no.	15753
Rated switching distance	15 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…65 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	4-wire, Complementary contact, NPN
Switching frequency	0.5 kHz
Design	Threaded barrel, M30 × 1.5
Dimensions	115 mm
Housing material	Plastic, ABS

Technical data

Active area material	Plastic, ABS
Max. tightening torque housing nut	5 Nm
Electrical connection	Terminal chamber
Clamping ability	$\leq 2.5\ mm^2$
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
Power-on indication	LED, Green
Switching state	LED, Yellow
Included in delivery	cable gland, blanking plug

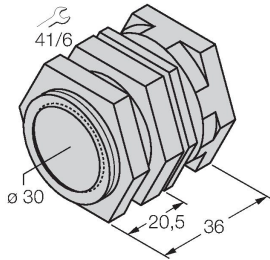## Mounting instructions

Mounting instructions/Description
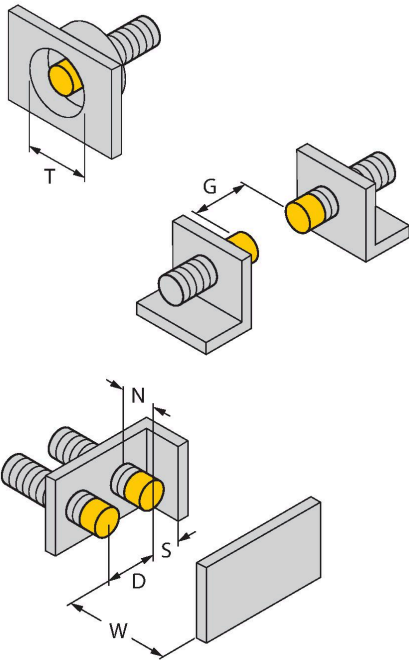
Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 30 mm

Accessories

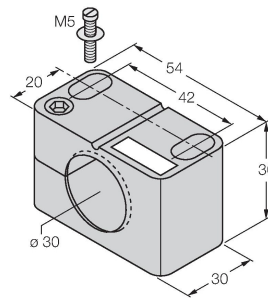### QM-30   6945103

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BST-30B   6947216

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

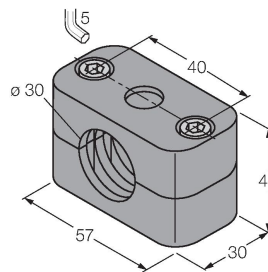### MW30   6945005

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-30   6901319

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene