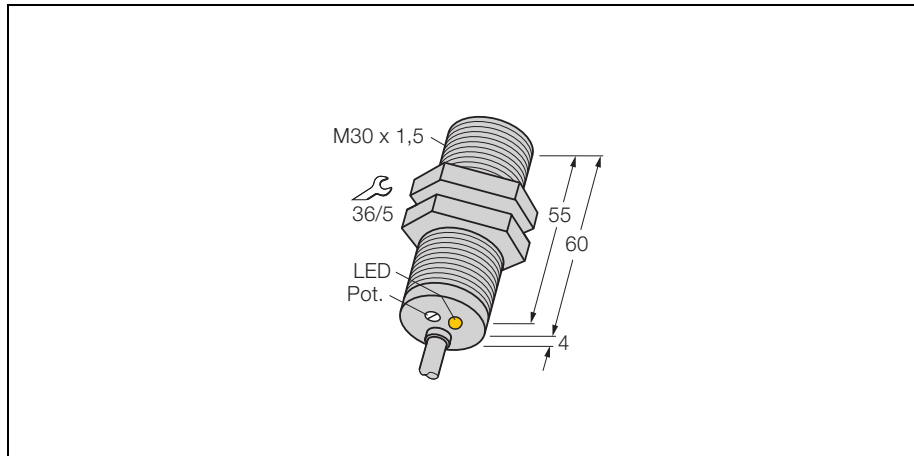
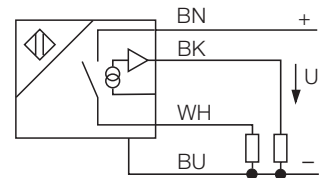


**Inductive sensor
with analogue and switching output
Bi15-M30-LUAP6X**



- threaded barrel, M30 x 1.5
- Chrome-plated brass
- analogue +
- extended sensing range
- 4-wire, 15...30 VDC
- normally open, pnp output
- analogue output
- 0...10 V
- cable connection

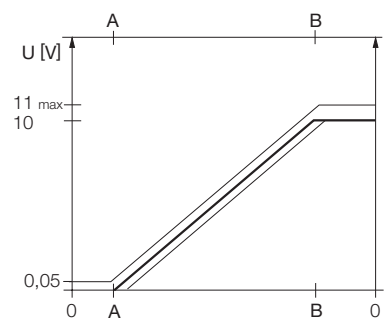
Wiring diagram



Functional principle

Simple control tasks can be accomplished with inductive TURCK sensors featuring an analogue output. They provide a current, voltage or frequency signal that is proportional to the target's distance. With TURCK's analogue sensors, this output signal is linear to the distance of the target over the entire sensing range.

Measuring range

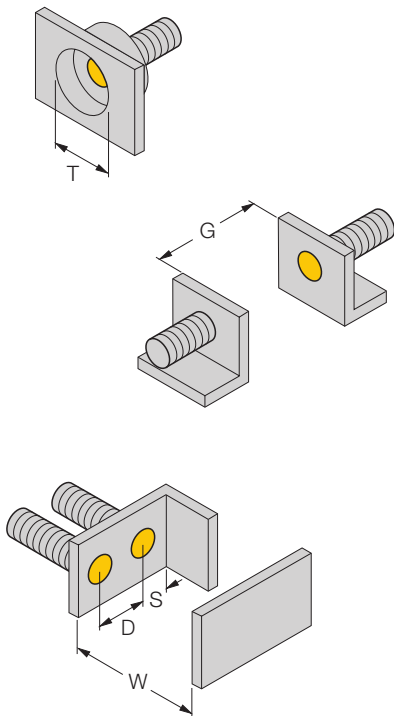


Type	Bi15-M30-LUAP6X
Ident-No.	4618510
Measuring range [A...B]	2... 10 mm switch point adjustable via potentiometer flush
Mounting condition	
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	1 % of measuring range A - B 0.5 %, after a warm-up time of 0.5 h
Reproducibility	80µm 40µm, after a warm-up time of 0.5 h
Linearity deviation	5% of full scale
Temperature drift	± 0.06 %/K
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	15... 30VDC
Residual ripple	10 % U _{SS}
DC rated operational current	200 mA
No-load current I ₀	8 mA
Rated insulation voltage	0.5 kV
Short-circuit protection	yes
Wire breakage / Reverse polarity protection	yes / complete
Output function	4-wire, normally open, PNP/analogue output
voltage output	0... 10 V
Load resistance voltage output	≥ 4.7 kΩ
Measuring sequence frequency	140 Hz
Output recovery time	12 ms
Housing	threaded barrel, M30 x 1.5
Dimensions	64 mm
Housing material	metal, CuZn, chrome-plated
Material active face	plastic, PA12-GF30
End cap	plastic, EPTR
Tightening torque of housing nut	75 Nm
Connection	cable
Cable quality	Ø 5.2, LiYY, PVC, 2 m
Cable cross section:	4 x 0.34mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow

**Inductive sensor
with analogue and switching output
Bi15-M30-LUAP6X**

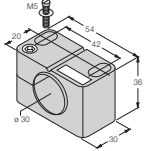
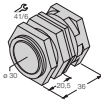
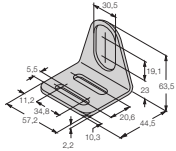
Mounting instructions	minimum distances
Distance D	60 mm
Distance W	27 mm
Distance T	3 x B
Distance S	45 mm
Distance G	54 mm

Diameter of the active area B	Ø 30 mm
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**Inductive sensor
with analogue and switching output
Bi15-M30-LUAP6X**

Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	
QM-30	6945103	quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M36 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	
MW-30	6945005	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	
BSS-30	6901319	fixing clamp; material: polypropylene	