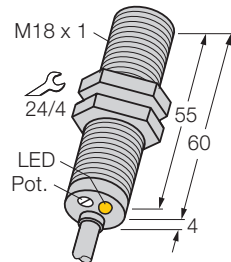
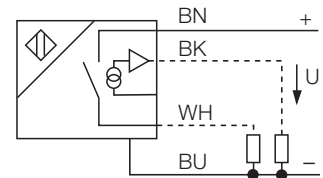


Inductive sensor with analogue and switching output Bi8-M18-LUAP6X



- threaded barrel, M18 x 1
- chrome-plated brass
- large measuring range: analog+
- analogue output (voltage)
- switch point adjustment via potentiometer
- 4-wire, 15...30 VDC
- normally open pnp output
- cable connection

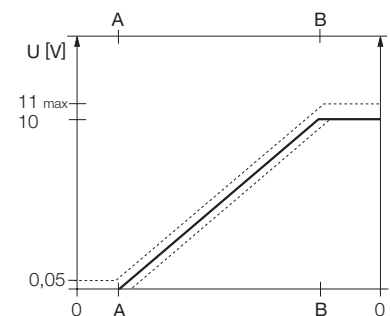
Wiring diagram



Function principles

Simple control tasks can be accomplished with inductive TURCK sensors with 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



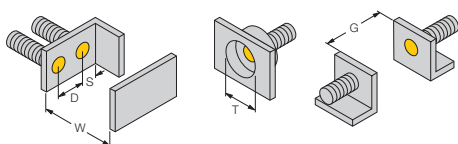
Type	Bi8-M18-LUAP6X
Ident-No.	4615010
Measuring range [A...B]	1... 5 mm Switching point adjustable with potentiometer flush
Mounting mode	
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 1 % of measuring range A - B ≤ 0.5 %, after a heating period of 0.5 h
Reproducibility	≤ 40 µm ≤ 20 µm, after a heating period of 0.5 h
Linearity tolerance	≤ 5 % of final value
Max. relative temperature drift	≤ ± 0,06 %/°C
Operating temperature	-10 ...+ 70 °C
Rated operational voltage (DC) U_B	15... 30 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 8 mA
Rated insulation voltage	≤ 0,5 kV
Output function	4-wire, normally open, PNP/analogue output
Short-circuit protection	yes
Wire breakage / reverse polarity protection	yes / complete
Voltage output	0... 10 V
Voltage output load resistance	≥ 4,7 kΩ
Reading rate frequency	200 Hz
Recovery time on output	≤ 12 ms

Inductive sensor with analogue and switching output Bi8-M18-LUAP6X

Housing style	threaded barrel; M18 x 1
Dimensions	54 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PA12-GF30
Max. fixing torque of coupling nut	25 Nm
Wiring	cable
Cable	Ø 5,2, LifYY, PVC, 2 m
Cable cross section	4 x 0,34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

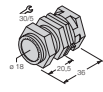
Inductive sensor with analogue and switching output Bi8-M18-LUAP6X

Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn
Diameter of active face B	Ø 18 mm



Inductive sensor with analogue and switching output Bi8-M18-LUAP6X

Accessories

Typ	Ident-No.	Description	Dimension drawing
QM-18	6945102	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M24 x 1,5.	
BST-18B	6947214	fixing clamp with dead-stop; material: PA6	