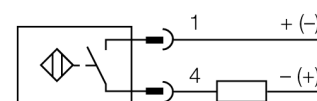


- Threaded barrel, M18 x 1
- Brass, PTFE-coated
- Factor 1 for all metals
- Magnetic field immune
- DC 2-wire, 10...65 VDC
- NO contact
- M12 x 1 connector

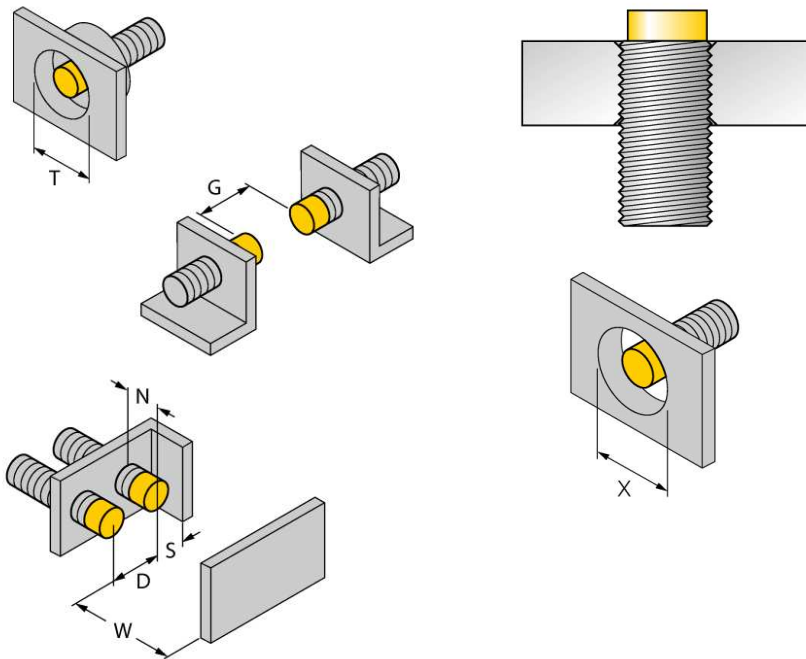
Wiring diagram

Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox[®]+* sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Type code	Ni10U-MT18M-AD4X-H1144
Ident no.	4405071
Rated operating distance Sn	10 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3...20 %
Ambient temperature	-25...+70 °C
Operating voltage	10...65VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.8 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I _s	≤ 5 V
Smallest operating current I _m	≤ 3 mA
Switching frequency	0.01 kHz
Design	threaded barrel, M18 x 1
Dimensions	61.5 mm
Housing material	Metal, CuZn, PTFE-coated
Material active face	Plastic, LCP, PTFE-coated
Max. tightening torque housing nut	15 Nm
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	• yellow

Distance D	54 mm
Distance W	30 mm
Distance T	54 mm
Distance S	27 mm
Distance G	60 mm
Distance N	20 mm

Diameter of the active area B	Ø 18 mm
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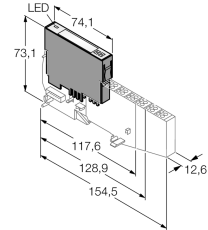
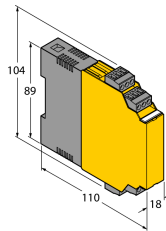
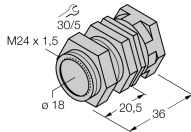
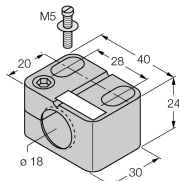
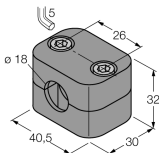
All non-flush mountable uprox[®]+ threaded barrel sensors can be screwed to the upper edge of the barrel. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

When installed in an aperture plate a distance of X = 70 mm must be observed.

Isolating switching amplifiers can be applied because uprox[®]+ 2-wire DC sensors work with 8 VDC low operating voltage (limited load current).

If the sensors are operated with the Turck remote I/O fieldbus system BL20, wire-break and short-circuit events are immediately detected. For this purpose connect the sensor to the BL20-4DI-NAMUR slice.

Accessories

Type code	Ident no.	Description	Dimension drawing
BL20-4DI-NAMUR	6827212	4 digital inputs acc. to EN 60947-5-6. For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.	
IM1-22EX-R	7541231	Isolating switching amplifier, dual-channel; 2 relay outputs NO; input NAMUR signal; selectable ON/OFF mode for wire-break and short-circuit monitoring; adjustable signal flow (NO/ NC mode); removable terminal blocks; 18 mm width; universal voltage supply unit	
QMT-18	6945104	Quick-mount bracket with dead-stop; material: brass, PTFE-coated; male thread M24 x 1,5. Note: The switching distance of the proximity switches may reduce when using quick-mount brackets.	
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
BSS-18	6901320	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
RKC4T-2/TXL	6625500	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	