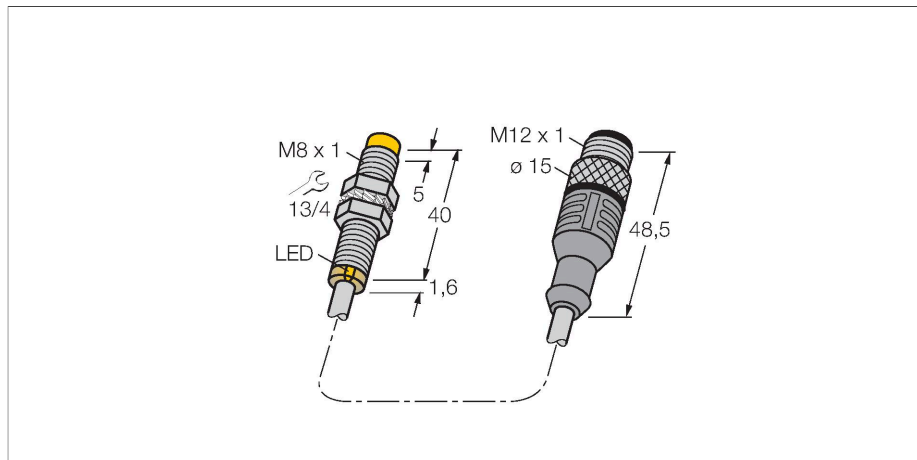


# NI4U-EG08-AP6X-0.2-RS4T

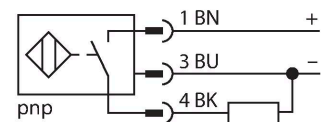
## Inductive Sensors



### Features

- M8 x 1 threaded barrel
- Stainless steel, 1.4404
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Pigtail with male end M12 x 1

### Wiring diagram



### Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox*® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

### Technical data

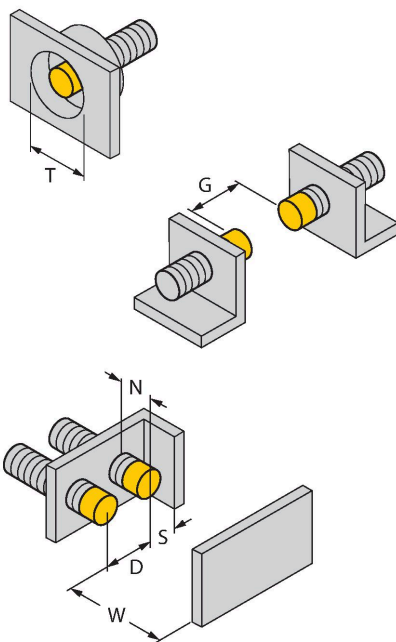
<b>Type</b>	NI4U-EG08-AP6X-0.2-RS4T
Ident. no.	46006000
Rated switching distance	4 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0,81 x Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 % ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-30...+85 °C
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 150 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	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Protection class	☐
Switching frequency	2 kHz
<b>Design</b>	Threaded barrel, M8 x 1
Dimensions	41.6 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF30
End cap	Plastic, PP

## Technical data

Material coupling nut	metal, CuZn, nickel-plated
Max. tightening torque housing nut	5 Nm
Electrical connection	Cable with connector, M12 x 1
Cable quality	Ø 4 mm, LifYY-11Y, PUR, 0.2 m
Core cross-section	3 x 0.25 mm <sup>2</sup>
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	LED, Yellow

## Mounting instructions

### Mounting instructions/Description

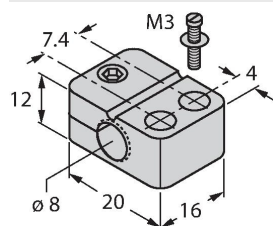


Distance D	3 x B
Distance T	3 x B
Distance N	2 x Sn
Diameter active area B	Ø 8 mm

## Accessories

### BST-08B

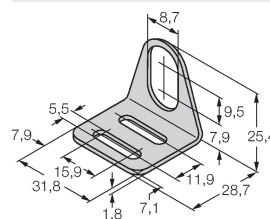
6947210



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

### MW08

6945008

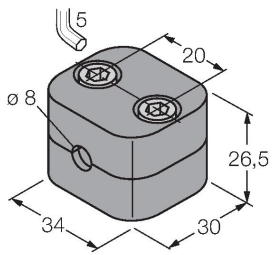


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

## BSS-08

6901322

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



## MBS80

69479

Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum

