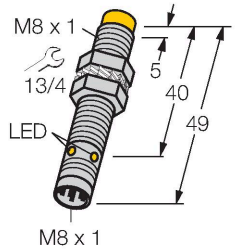
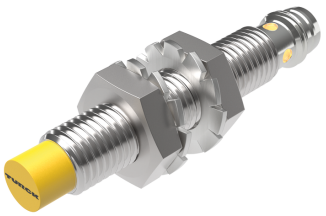
NI4U-EG08-AP6X-V1131
Inductive Sensor





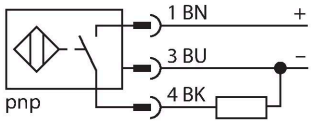
Technical data

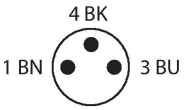
Type	NI4U-EG08-AP6X-V1131
ID	4600620
General data	
Rated switching distance	4 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3…15 %
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
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 I_e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
DC field stability	200 mT
AC field stability	200 mT_{ss}
Insulation class	⧈

Features

- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- 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
- M8 x 1 male connector

Wiring diagram





Functional principle

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

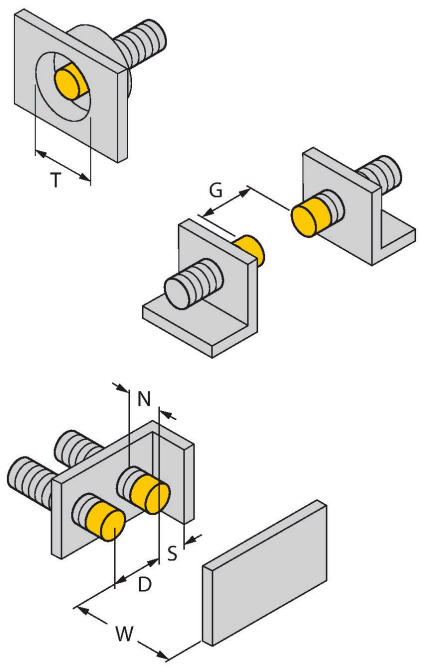
NI4U-EG08-AP6X-V1131| 11/07/2023 13-26 | technical changes reserved

Technical data

Switching frequency	2 kHz
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	49 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF30
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M8 × 1
Environmental conditions	
Ambient temperature	-30…+85 °C
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

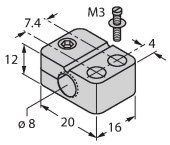
Mounting instructions/Description

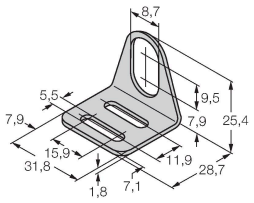


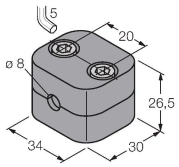
Distance D	32 mm
Distance W	12 mm
Distance T	32 mm
Distance S	12 mm
Distance G	24 mm
Distance N	8 mm
Diameter active area B	Ø 8 mm

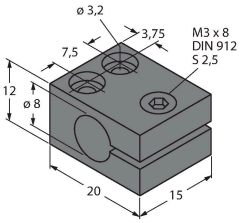
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Accessories

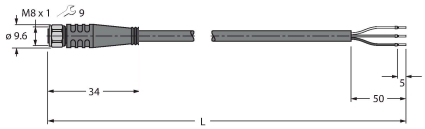
BST-08B	6947210
	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

MW-08	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

Wiring accessories

Dimension drawing	Type	ID	
	PKGV3M-2/TEL	6625385	Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, black; cULus approval

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NI 4U-Q8SE-AP6X NI10-G18-AZ3X-B1431 50MM TX1-Q20L60 NI100U-K90SR-VP4X2-H1141 6936233
BC5-Q08-AP6X2-V1131 Bi 8U-M18-AP6X C9-A41BX/024VADC IM33-11EX-HI/24VDC NI10U-M12-AP6X
NI10U-M12E-AP6X-H1141 BI 5-M18-Y1X-H1141 Bi5-G18-Y1X IM31-22EX-I NI12U-S18-AP6X
BI30U-CP40-AP6X2 BI4-M12-AN6X-H1141 BIM-IKT-AP6X RK 4T-4/S618 BI10-M30-AP6X-H1141
BIM-UNT-AP6X-0.3-PSG3M MFKS 3-1 NI 8U-M12-AN6X-H1141 BI10U-Q14-AP6X2-V1131
NI30U-M30-AN6X-H1141 RKM 30-2M