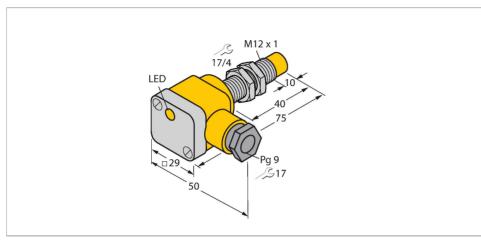


NI8U-EG12SK-AP6X **Inductive Sensor**



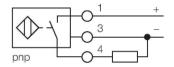
Technical data

Туре	NI8U-EG12SK-AP6X
Ident. no.	1644400
Rated switching distance	8 mm
Mounting conditions	Non-flush, partially embeddable
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-30+85 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 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
Insulation class	
Switching frequency	2 kHz
Design	Threaded barrel, M12 × 1
Dimensions	75 mm
Switching frequency Design	2 kHz Threaded barrel, M12 × 1

Features

- ■Threaded barrel, M12 x 1
- Stainless steel, 1.4301
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- Auto-compensation protects against predamping
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■Terminal chamber

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects.

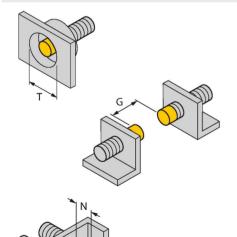


Technical data

Housing material	Stainless steel, 1.4301 (AISI 304)
Terminal chamber cover material	plastic, Ultem
Terminal chamber housing material	plastic, PA12-GF30
Active area material	Plastic, PBT
Max. tightening torque of housing nut	10 Nm
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Cable external diameter	4.58 mm
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
Included in delivery	cable gland; 2x plastic seals

Mounting instructions

Mounting instructions/Description





Distance D	3 x B
Distance W	3 x Sn
Distance T	45 mm
Distance S	0.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 12 mm

1-side flush mounting possible: 1-side flush mounting: Sr = 6 mm



Accessories

BST-12B ø 12

.30

6947212

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



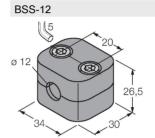
6945101

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

MW-12

6945003

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



6901321

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