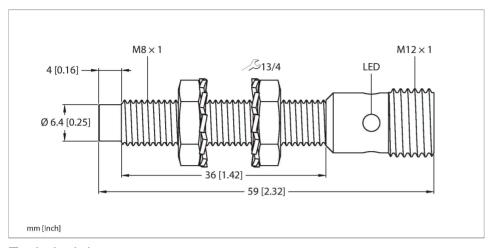


# NI3-EG08-AP6X-H1341/S1589 Inductive Sensor – With Weldguard® coating



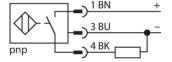
#### Technical data

Type	NI3-EG08-AP6X-H1341/S1589
ID	4602799
Special version	S1589 Corresponds to:With weldguard coating
General data	
Rated switching distance	3 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	20 %
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub>	≤ 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 <sub>e</sub>	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
Switching frequency	3 kHz

#### **Features**

- ■M8 × 1 threaded barrel
- Stainless steel, 1.4305 (AISI 303)
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

#### Wiring diagram





## Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

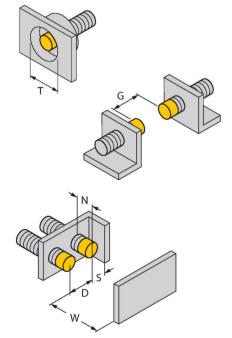


## Technical data

Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	59 mm
Housing material	Stainless steel, 1.4305 (AISI 303)
Active area material	Plastic, PBT
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

## Mounting instructions

## Mounting instructions/Description



Distance W 3 x Sn  Distance T 3 x B  Distance S 1.5 x B  Distance G 6 x Sn  Distance N 2 x Sn  Diameter active area B	Distance D	3 x B
Distance S 1.5 x B  Distance G 6 x Sn  Distance N 2 x Sn  Diameter active Ø 8 mm	Distance W	3 x Sn
Distance G 6 x Sn  Distance N 2 x Sn  Diameter active Ø 8 mm	Distance T	3 x B
Distance N 2 x Sn  Diameter active Ø 8 mm	Distance S	1.5 x B
Diameter active Ø 8 mm	Distance G	6 x Sn
	Distance N	2 x Sn
		Ø 8 mm



### Accessories

BST-08B 6947210

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



8,7 7,9 15,9 31,8 11,9 28,7

MW08

MBS80

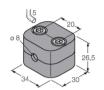
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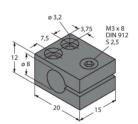
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Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-08 6901322

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





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