

Proximity Sensors Inductive Stainless Steel Housing Types EI, M8, NAMUR

CARLO GAVAZZI



- Stainless steel housing, cylindrical
- Diameter: M8
- Short versions
- Sensing distance: 1 to 2 mm
- Output: NAMUR (DIN 19234)
- Protection: Reverse polarity
- 2 m cable

Product Description

Proximity switch in M8 housings. Made in accordance with NAMUR DIN 19234. Short version in standard and stainless steel housing. Amplifier relay SD ... is available.

Ordering Key

EI 0801 NAC S

Type _____
Housing diameter (mm) _____
Rated operating dist. (mm) _____
Output type _____
Housing material _____

Type Selection

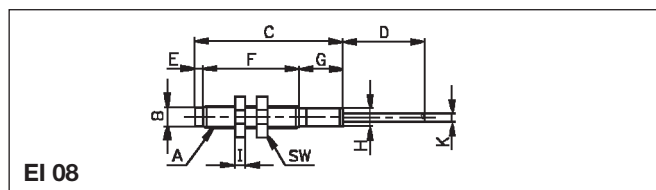
Housing diameter	Rated operating distance (S _n)	Ordering no. NAMUR	
M8	1 mm ¹⁾	EI 0801 NACS	¹⁾ For flush mounting in metal
M8	2 mm ²⁾	EI 0802 NACS	²⁾ For non-flush mounting in metal

Specifications

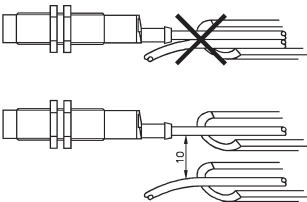
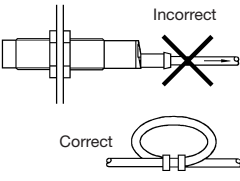
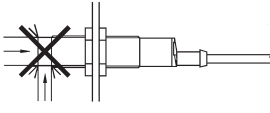
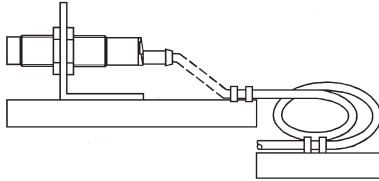
Rated operational volt. (U _e) (U _B)	8.2 VDC 7 to 9 VDC (6 to 35 VDC, all specifications not observed in extended supply range)	Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Self-inductance	Max. 500 µH	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Self-capacitance	Max. 120 nF	Housing material Body Front Back	Stainless steel (1.4301) Thermoplastic polyester Black PVC
Current consumption (I _o)	Activated: ≤1 mA Not activated: ≥ 2.2 mA Max.: 9.35 mA	Cable	2 m, 2 x 0.14 mm ² grey PVC, oil proof
Protection	Reverse polarity	Weight (cable included)	EI 08 50 g
Transient voltage	≤ 1 kV/0.5 J (prepared)	Tightening torque	EI 08 3.0 Nm (x) 7.0 Nm (y) Refer to "Terms Used" Technical information.
Frequency of operating cycles (f)	EI 0801 2000 Hz EI 0802 1500 Hz	Approvals	UL, CSA
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 x S _n	CE-marking	Yes
Repeat accuracy (R)	≤ 5%		
Hysteresis (H) (Differential travel)	Dependent on amplifier relay		
Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n		
Usable operating dist. (S _u)	0.9 x S _r ≤ S _u ≤ 1.1 x S _r		

Dimensions

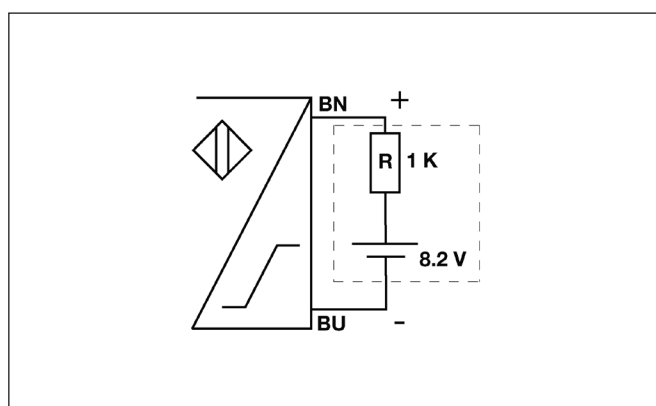
Type	A	B Ø mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	SW mm	K Ø mm
EI 0801	M8 x 1	6.7	51	2000	0	35	16	Ø 6.5	4	13	3
EI 0802	M8 x 1	6.7	54	2000	3	35	16	Ø 6.5	4	13	3



Installation Hints

<p>To avoid interference from inductive voltage/current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables</p> 	<p>Relief of cable strain</p>  <p>The cable should not be pulled</p>	<p>Protection of the sensing face</p>  <p>A proximity switch should not serve as mechanical stop</p>	<p>Switch mounted on mobile carrier</p>  <p>Any repetitive flexing of the cable should be avoided</p>
--	--	--	---

Wiring Diagram



NAMUR, Amplifier Relays

> SD 110/210.
> SD 170/270.

Refer to Technical information.