

Proximity Sensors Inductive Stainless Steel Housing Types EI, Ø 6.5, M8, NAMUR



- Stainless steel housing, cylindrical
- Diameter: Ø 6.5, M8
- Short versions
- Sensing distance: 1 to 2 mm
- Output: NAMUR (DIN 19234)
- Protection: Reverse polarity
- 2 m cable

Product Description

Proximity switch in Ø 6.5 and M8 housings. Made in accordance with NAMUR DIN 19234. Short version in standard stainless steel housing. Amplifier relay SD ... is available.

Ordering Key

EI 0601 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
Ø 6.5 mm	1 mm ¹⁾	EI 0601 NACS
M8	1 mm ¹⁾	EI 0801 NACS
M8	2 mm ²⁾	EI 0802 NACS

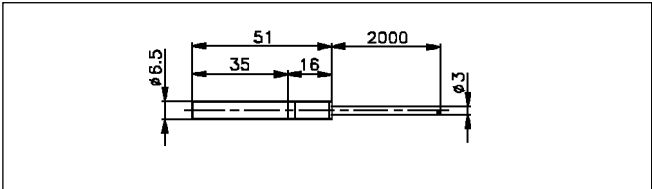
¹⁾ For flush mounting in metal
²⁾ For non-flush mounting in metal

Specifications

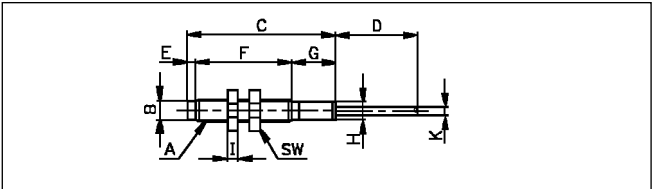
Rated operational volt. (U _e) (U _B)	8.2 VDC 7 to 9 VDC (6 to 35 VDC, all specifications not observed in extended supply range)	Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
Self-inductance	Max. 500 µH	Usable operating dist. (S _u)	0.9 x S _r ≤ S _u ≤ 1.1 x S _{rZ}
Self-capacitance	Max. 120 nF	Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Current consumption (I _o)	Activated: ≤1 mA Not activated: ≥ 2.2 mA Max.: 9.35 mA	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Protection	Reverse polarity	Housing material Body Front Back	Stainless steel (1.4301) Thermoplastic polyester Black PVC
Transient voltage	≤ 1 kV/0.5 J (prepared)	Cable	EI 06 2 m, 2 x 0.14 mm ² EI 08 2 m, 2 x 0.14 mm ² grey PVC, oil proof
Frequency of operating cycles (f)	EI 0601 2000 Hz EI 0801 2000 Hz EI 0802 1500 Hz	Weight (cable included)	EI 06 30 g EI 08 50 g
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 x S _n	Tightening torque	EI 08 3.0 Nm (x) 7.0 Nm (y) Refer to "Terms Used" Technical information.
Repeat accuracy (R)	≤ 5%	Approvals	UL, CSA
Hysteresis (H) (Differential travel)	Dependent on amplifier relay	CE-marking	Yes

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



EI 0601



EI 08

Installation Hints

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

Relief of cable strain

Incorrect

Correct

The cable should not be pulled

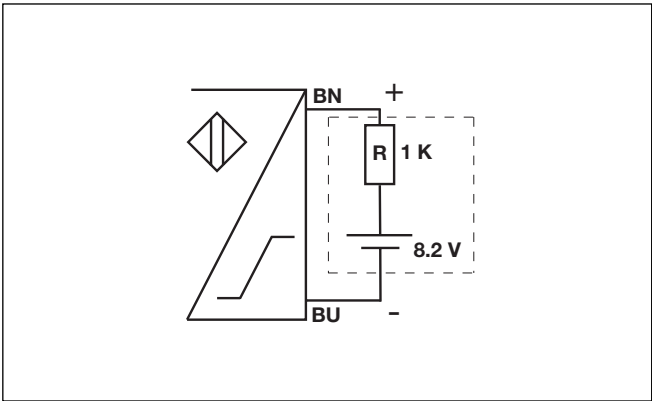
Protection of the sensing face

A proximity switch should not serve as mechanical stop

Switch mounted on mobile carrier

Any repetitive flexing of the cable should be avoided

Wiring Diagram



NAMUR, Amplifier Relays

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

Refer to Technical information.