



Технические характеристики

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

CARLO GAVAZZI



- 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 19 234. 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

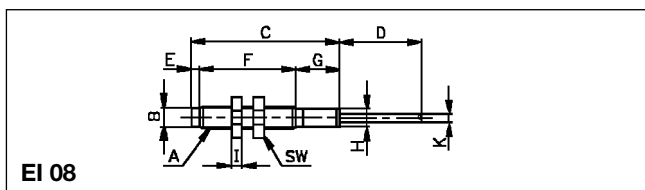
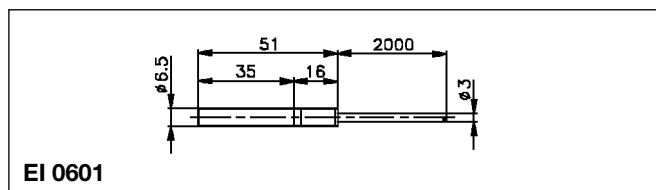
Housing diameter	Rated operating distance (S _n)	Ordering no. NAMUR	
Ø 6.5 mm	1 mm ¹⁾	EI 0601 NACS	
M8	1 mm ¹⁾	EI 0801 NACS	¹⁾ For flush mounting in metal
M8	2 mm ²⁾	EI 0802 NACS	²⁾ For non-flush mounting in metal

Specifications

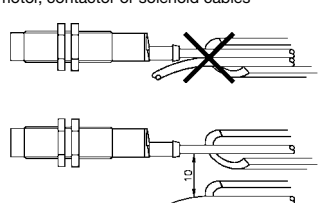
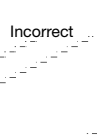

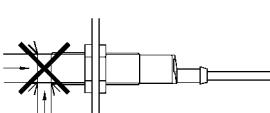
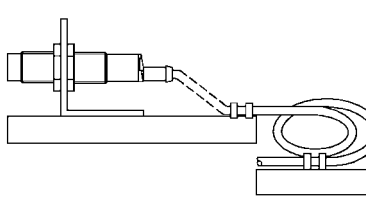
Rated operational volt. (U _e) (U _B)	8.2 VDC 7 to 9 VDC (6 to 35 VDC, all specifications not observed in extended supply range)	Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Self-inductance	Max. 500 µH	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 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 06 30 g 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 0601 2000 Hz 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

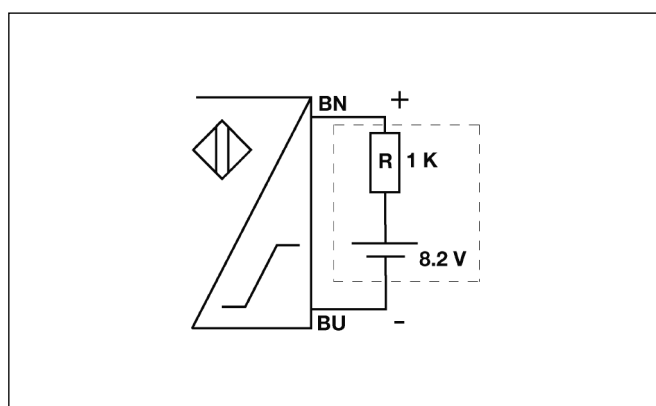
Type	A	B Ø mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	SW mm	K Ø mm
EI 0801	M8 x 1	6.7	51	2000	0	35	16	Ø 6.5	4	13	3
EI 0802	M8 x 1	6.7	54	2000	3	35	16	Ø 6.5	4	13	3



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>Incorrect</p>  <p>Correct</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>
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Wiring Diagram



NAMUR, Amplifier Relays

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

Refer to Technical information.

Proximity Sensors Inductive Analogue Position Sensor Types EI, M18, M30

CARLO GAVAZZI



- Nickel-plated brass housing, cylindrical
- Diameter: M18, M30
- Sensing range: EI 1805 I020: 2 to 5 mm
EI 3008 I020: 3 to 8 mm
- Power supply: 15 to 30 VDC
- Current source output: 0 to 20 mA
- Protection: Reverse polarity, internal current limiter
- 2 m cable or plug M12

Product Description

Cylindrical analogue position sensor in M18 and M30 nickel-plated brass housings. High degree of linearity, output current 0 to 20 mA. Can

be extended with level amplifier relay S 183 and analogue display to make up complete measuring systems.

Ordering Key

EI 1805 I020-1

Type: Inductive switch
Housing diameter
Rated operating dist. (mm)
Current output 0 to 20 mA
Connection type

Type Selection

Housing diameter	Rated operating dist. (S _n)	Ordering no. Output type 0 to 20 mA	Ordering no. Output type 0 to 20 mA
M18	2 to 5 mm ¹⁾	EI 1805 I020	EI 1805 I020-1
M30	3 to 8 mm ¹⁾	EI 3008 I020	

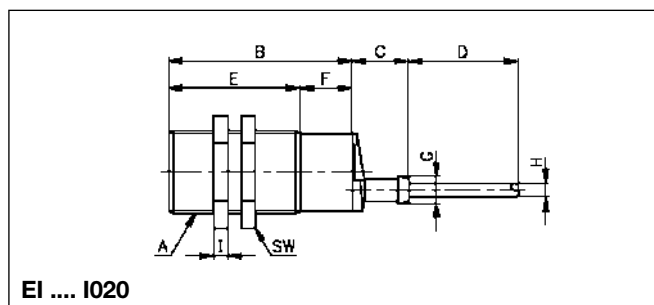
¹⁾ For flush mounting in metal

Specifications

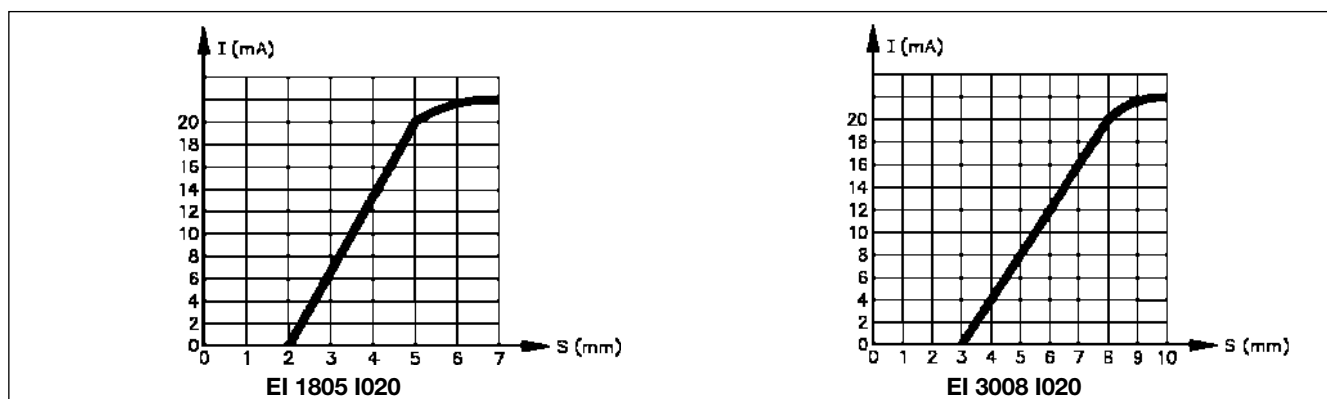
Rated operational volt. (U _e) (U _B)	17 to 27 VDC 15 to 30 VDC (ripple included)	Ambient temperature Operating Storage	-15° to +65°C (+5° to +144°F) -20° to +70°C (-4° to +158°F)
Ripple	≤ 10%	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Rated operational current (I _a)	0 to 20 mA (R load: 0 to 500 Ω) Max. 30 mA (current limiter)	Housing material Body Front	Nickel-plated brass Blue thermoplastic polyester
No-load supply current (I _o)	≤ 7 mA (no load)	Back	Black thermoplastic polyester
Protection	Reverse polarity current limiter	Cable	2 m, 3 x 0.25 mm ² grey PVC, oil proof
Transient voltage	≤ 2 kV/0.5 J (prepared)	Weight (cable included)	EI 1805 I020 85 g EI 3008 I020 195 g
Power ON delay	Safe operation after 1 s	Tightening torque	EI 1805 I020 17.5 Nm EI 3008 I020 35.0 Nm
Rate of rise	EI 1805 I020 ≥ 1 mm/ms EI 3008 I020 ≥ 3 mm/ms	CE-marking	Yes
Assured operating dist. (S _a)	EI 1805 I020 2 to 5 mm EI 3008 I020 3 to 8 mm		
Linearity	± 3% of full scale		
Repeat accuracy (R)	≤ 1%		
Temperature drift	EI 1805 I020 ≤ 2 μm/°C per mm EI 3008 I020 ≤ 1 μm/°C per mm		

Dimensions

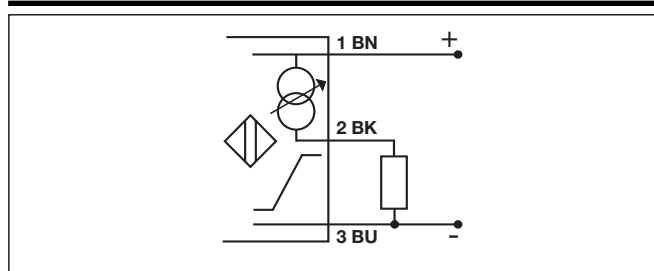
Type	A	B mm	C mm	D mm	E mm	F mm	G mm	H Ø mm	I mm	SW mm
EI 1805 I020	M18 x 1	71	20.5	2000	52	19	10	5.2	4	24
EI 3008 I020	M30 x 1.5	67	20.5	2000	48	19	10	5.2	5	36



Output Curves



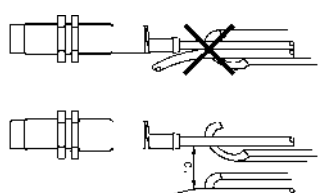
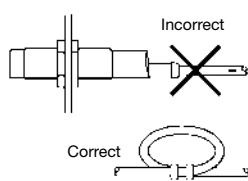
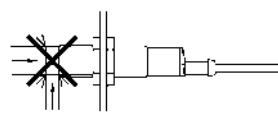
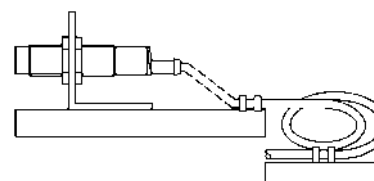
Wiring Diagram



Power Supplies

Power supplies VAC: > SS 110.
Power supplies VDC: > SS 130/140.

Installation Hints

<p><i>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</i></p> 	<p><i>Relief of cable strain</i></p>  <p>The cable should not be pulled</p>	<p><i>Protection of the sensing face</i></p>  <p>A proximity switch should not serve as mechanical stop</p>	<p><i>Switch mounted on mobile carrier</i></p>  <p>Any repetitive flexing of the cable should be avoided</p>
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Proximity Sensors Inductive Flat pack Polycarbonate Housing Types EI 5510/EI 5515, AC-Types

CARLO GAVAZZI



- Sensing distance 10 or 15 mm
- Rated operational voltage: 20 to 250 VAC
- Output: SCR, make or break switching
- LED indication for output ON
- Protection: Transients
- Inductive, Capacitive and Photoelectric flat pack series in PC housing, IP 67
- Cable and plug versions

Product Description

AC inductive proximity switches with sensing distance 10 mm mounted in metal or 15 mm non-flush mounted. Flat pack housing size (W x H x D)

35 x 55 x 15 mm made in polycarbonate. Easy mounting with only two M 3.5 screws. Ideal for use in conveying and material handling applications.

Ordering Key

EI 55 10 TBO P-6

Type: Inductive proximity switch
Housing _____
Range _____
Output type _____
Housing material _____
Connection type _____

Type Selection, AC Types

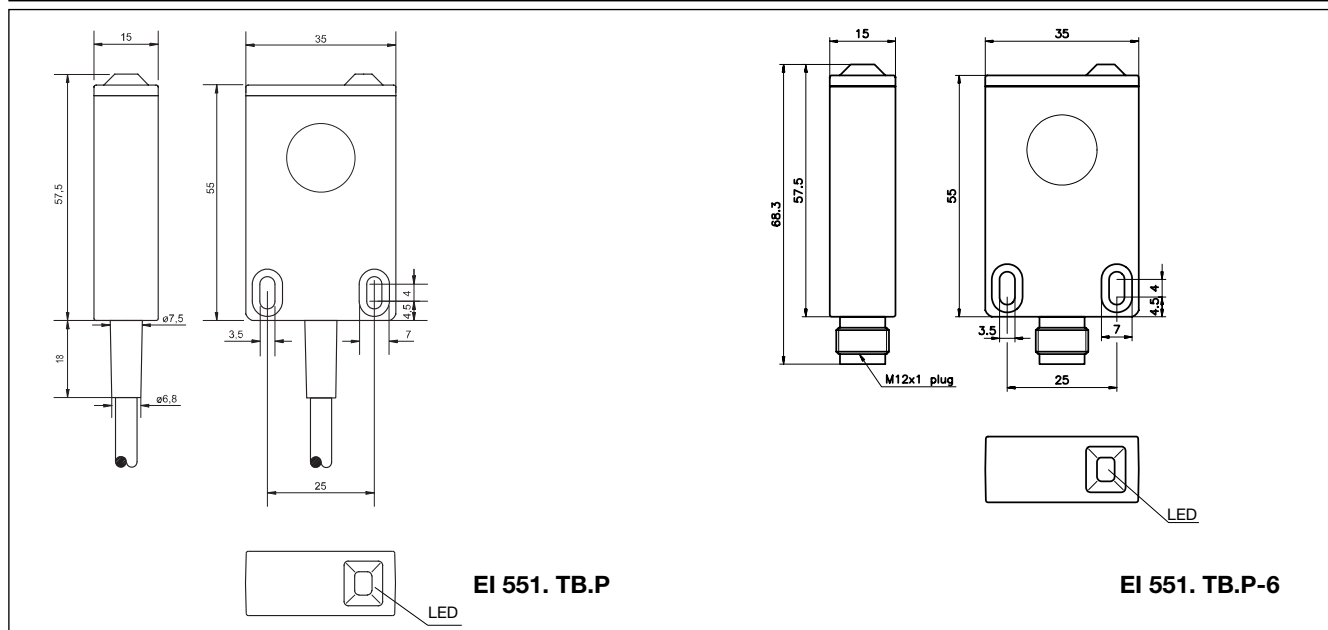
Housing diameter W x H x D	Rated operating dist. (S _n)	Ordering no. Cable Make switching	Ordering no. Cable Break switching	Ordering no. Plug Make switching	Ordering no. Plug Break switching
35 x 55 x 15	10 mm	EI 5510 TBOP	EI 5510 TBOP	EI 5510 TBO P-6	EI 5510 TBCP-6
	15 mm	EI 5515 TBOP	EI 5515 TBOP	EI 5515 TBO P-6	EI 5515 TBCP-6

Specifications

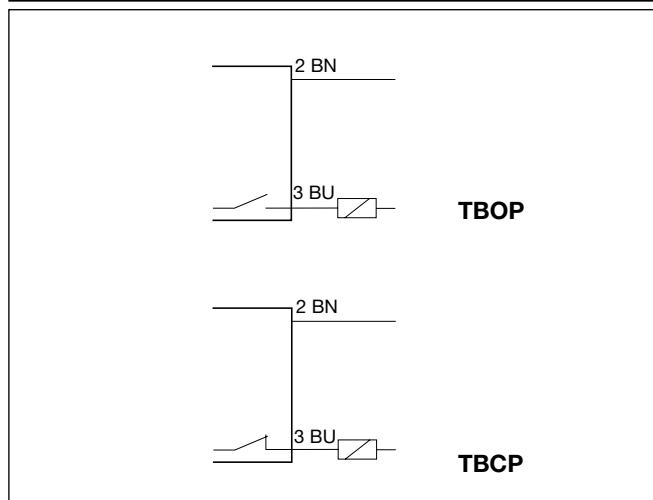
Rated operational volt. (U _e) (U _B)	24 to 240 VAC 20 to 250 VAC, 50 to 60 Hz	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Rated operational current (I _e) Continuous Short-time	10 to 500 mA ≤ 2.5 A, max. 20 ms	Housing material	Polycarbonate, grey
Minimum load current (I _o)	≤ 5 mA	Connection Cable	2 m, 4 x 0.3 mm ² grey PUR, oil proof
OFF-state current (I _r)	20mA	Plug Cables for plug (-6)	M 12 x 1 (double keyed) CONH6A-xx
Voltage drop (U _d)	≤ 8 VAC at max. load	Weight	125 g cable version 40 g plug version
Protection	Transients	EMC ratings	Acc. to EN 50 082-2
Transient voltage	Level 3, 2.5 kV, acc. to IEC-60255-5 (500Ω, 0.5 J)	EN 61 000-4-2 ESD Contact discharge	4 kV
Power ON delay	≤ 100 ms	Air discharge	8 kV
Frequency of operating cycles (f)	5 Hz	EN 61 000-4-4 Fast transient Rep. freq. 5 kHz	2 kV
Indication for output ON	LED, yellow	ENV 50 140 RF Electromagnetic AM, 80-1000 mHz	10 V/m
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 S _n	ENV 50 141 Conducted Disturbance	10 V/m
Repeat accuracy (R)	≤ 5%	ENV 50 204 RF Electromagnetic field PM, 80-900 MHz	10 V/m
Hysteresis (H) (Differential travel)	3 to 20% of sensing distance	Approvals	UL, CSA
Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	CE-marking	Yes
Usable operating dist. (S _u)	0.9 x S _r ≤ S _u ≤ 1.1 x S _r		
Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)		



Dimensions



Wiring Diagrams



Accessories

- Plugs CONH6A.. serie, please refer to "Accessories".

Delivery Contents

- Inductive switch: EI 551.
- Packaging:** Corrugated cardboard (environmentally friendly recycling material).

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