

Proximity Sensors Inductive Flat pack Polycarbonate Housing Types EI 5510/EI 5515, DC-Types

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- Sensing distance 10 or 15 mm
- Flush and non-flush types
- Rated operational voltage: 10 to 40 VDC
- Output: DC 200 mA, NPN or PNP
- Normally open and normally closed function
- LED indication for output ON
- Inductive, Capacitive and Photoelectric flat pack series in PC housing, IP 67
- Cable and plug versions

Product Description

Inductive proximity switch with sensing distance 10 mm flush mounted in metal or 15 mm non-flush mounted. 4-wire with both make (NO) and break (NC) switching. 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 NPA P-1

Type _____
Housing _____
Range _____
Output type _____
Housing material _____
Connection type _____

Type Selection

Housing diameter W x H x D	Rated operating dist. (S _n)	Ordering no. NPN/cable NO & NC	Ordering no. NPN/plug NO & NC	Ordering no. PNP/cable NO & NC	Ordering no. PNP/plug NO & NC
35 x 55 x 15 mm	10 mm ¹⁾	EI 5510 NPAP	EI 5510 NPAP-1	EI 5510 PPAP	EI 5510 PPAP-1
35 x 55 x 15 mm	15 mm ²⁾	EI 5515 NPAP	EI 5515 NPAP-1	EI 5515 PPAP	EI 5515 PPAP-1

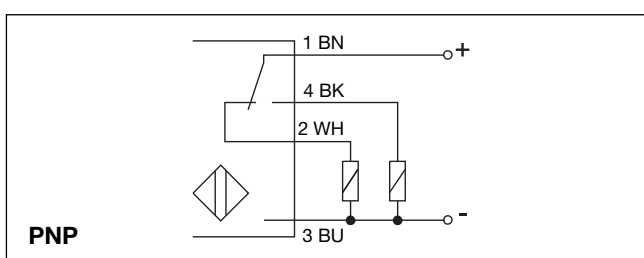
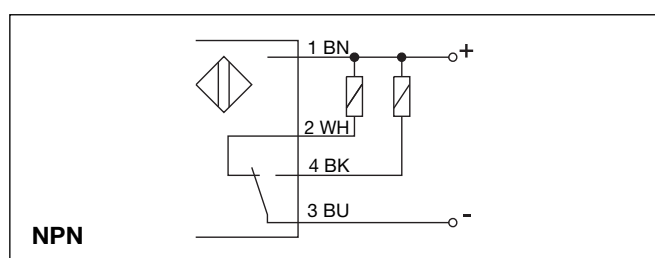
¹⁾ For flush mounting in metal

²⁾ For non-flush mounting in metal

Specifications

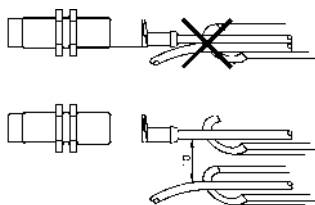
Rated operational volt. (U _e) (U _B)	12 to 36 VDC 10 to 40 VDC (ripple included)	Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Ripple	≤ 10%	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Rated operational current (I _e) Continuous	≤ 200 mA	Housing Dimensions Material	35 x 55 x 15 mm Polycarbonate, grey
No-load supply current (I ₀)	≤ 7 mA	Cable	2 m, 4 x 0.3 mm ² grey PVC, oil proof
Voltage drop (U _d)	≤ 2 VDC at max. load	Weight Cable version Plug version	125 g 40 g
Protection	Reverse polarity, short-circuit	EMC ratings ENV 50 140 RF Electromagnetic field AM, 80-1000 MHz, Level 3 ENV 50 204 RF Electromagnetic field PM, 80-900 MHz, Level 3 EN 61000-4-4 Fast transient Rep. freq. 5 kHz, Level 3	Acc. to EN 50 082-2 10 V/m 10 V/m 1 kV
Power ON delay	≤ 50 ms	Approvals	UL, CSA
Frequency of operating cycles (f) EI 5510 EI 5515	500 Hz 250 Hz	CE-marking	Yes
Indication for output ON	LED, yellow		
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 S _n		
Repeat accuracy (R)	≤ 5%		
Hysteresis (H) (Differential travel)	1 to 15% of sensing distance		
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		

Wiring Diagrams

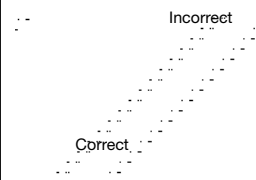


Installation Hints

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

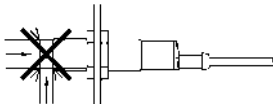


Relief of cable strain



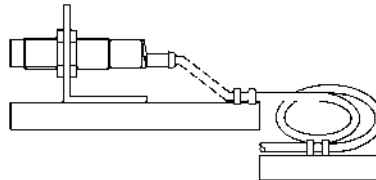
The cable should not be pulled

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

Accessories

- Plugs CONH1A.. series, please refer to "Accessories".

Delivery Contents

- Inductive switch: EI 551.
- **Packaging:** plastic bag