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



CARLO GAVAZZI

- 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 $(W \times H \times D) 35 \times 55 \times 15$ 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
Туре	
Housing —	
Range	
Output type —	
Housing material ———	
Connection type	

Type Selection

Housing	Rated	Ordering no.	Ordering no.	Ordering no.	Ordering no.
diameter	operating	NPN/cable	NPN/plug	PNP/cable	PNP/plug
W x H x D	dist. (S _n)	NO & NC	NO & NC	NO & NC	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

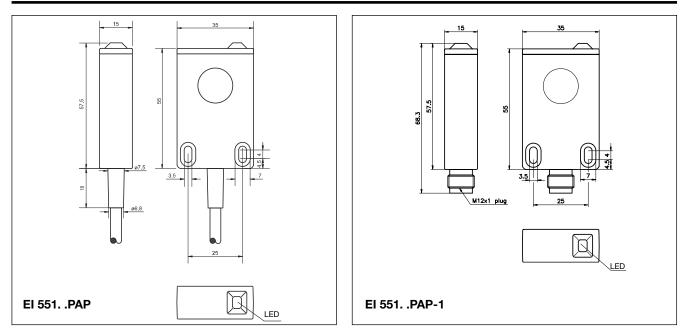
Specifications

Rated operational volt. (U _e)	12 to 36 VDC
(U _B)	10 to 40 VDC
	(ripple included)
Ripple	< 10%
· · ·	21070
Rated operational current (I _e)	
Continuous	≤ 200 mA
No-load supply current (I_o)	\leq 7 mA
Voltage drop (U _d)	\leq 2 VDC at max. load
Protection	Reverse polarity,
	short-circuit
Power ON delay	≤ 50 ms
Frequency of operating	
cycles (f) EI 5510	500 Hz
EI 5515	250 Hz
Indication for output ON	LED, yellow
Assured operating dist. (S _a)	$0 \leq S_a \leq 0.81 \ S_n$
Repeat accuracy (R)	≤ 5%
Hysteresis (H)	
(Differential travel)	1 to 15% of sensing distance
Effective operating dist. (S _r)	$0.9 \; x \; S_n \leq S_r \leq 1.1 \; x \; S_n$
Usable operating dist. (S _u)	$0.9 \ x \ S_r \leq S_u \leq 1.1 \ x \ S_r$

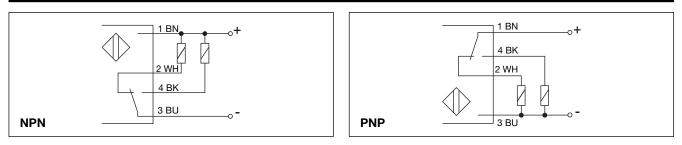
Ambient temperature	
Operating	-25° to +70°C (-13° to +158°F)
Storage	-30° to +80°C (-22° to +176°F)
Degree of protection	IP 67 (Nema 1, 3, 4 ,6, 13)
Housing	
Dimensions	35 x 55 x 15 mm
Material	Polycarbonate, grey
Cable	2 m, 4 x 0.3 mm ²
	grey PVC, oil proof
Weight	
Cable version	125 g
Plug version	40 g
EMC ratings	Acc. to EN 50 082-2
ENV 50 140 RF Electromagnetic	
field AM, 80-1000 MHz, Level 3	10 V/m
ENV 50 204 RF Electromagnetic	
,,,	10 V/m
EN 61000-4-4 Fast transient	
Rep. freq. 5 kHz, Level 3	1 kV
Approvals	UL, CSA
CE-marking	Yes
-	



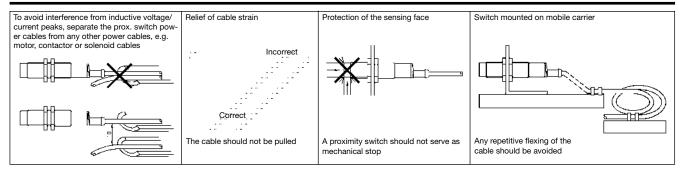
Dimensions



Wiring Diagrams



Installation Hints



Accessories

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

Delivery Contents

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Carlo Gavazzi:

<u>EI5510PPAP</u> <u>EI8040NACP</u> <u>EI5515NPAP-1</u> <u>EI5515NPAP</u> <u>EI5515PPAP</u> <u>EI5510NPAP</u> <u>EI5510NPAP-1</u> EI5510PPAP-1 EI5515PPAP-1 EM110-40