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





- Sensing distance 10 or 15 mm
- Rated operational voltage: 10 to 40 VDC
- Output: DC 200 mA, NPN or PNP
- Make and break switching function
- LED indication for output ON
- Inductive, Capacitive and Photoelectric flat pack series in PC housing, IP 67
- Cable and plug versions

**Connection type** 

#### **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 Type Housing Range Output type Housing material

#### **Type Selection**

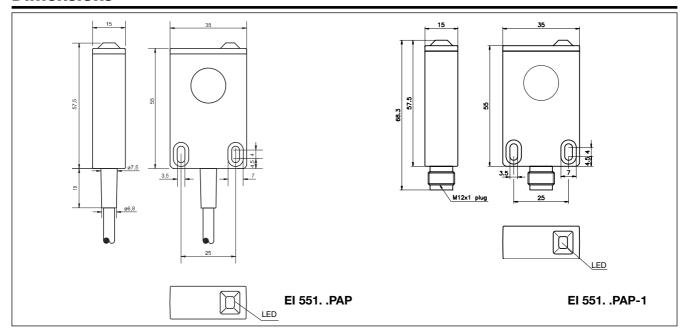
Housing	Rated operating dist. (S <sub>n</sub> )	Ordering no.	Ordering no.	Ordering no.	Ordering no.
diameter		NPN/cable	NPN/plug	PNP/cable	PNP/plug
W x H x D		Make & break swit.			
35 x 55 x 15	10 mm	EI 5510 NPAP	EI 5510 NPAP-1	EI 5510 PPAP	EI 5510 PPAP-1
	15 mm	EI 5515 NPAP	EI 5515 NPAP-1	EI 5515 PPAP	EI 5515 PPAP-1

### **Specifications**

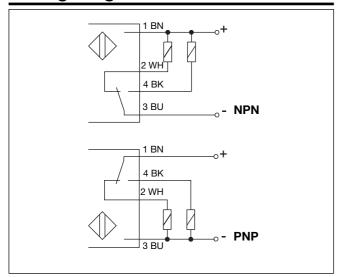
Rated operational volt. (U <sub>e</sub> )	12 to 36 VDC	Ambient temperature	-25° to +70°C (-13° to +158°F)	
(U <sub>B</sub> )		0 to 40 VDC Operating		
	(ripple included)	Storage	-30° to +80°C (-22° to +176°F)	
Ripple ≤ 10%		Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)	
Rated operational current (I <sub>e</sub> )		Housing material	Polycarbonate, grey	
Continuous	≤ 200 mA	Cable	2 m, 4 x 0.3 mm <sup>2</sup> grey PVC, oil proof	
No-load supply current (I <sub>o</sub> )	≤ 7 mA			
Voltage drop (U <sub>d</sub> )	≤ 2 VDC at max. load	Weight	125 g cable version	
Protection	Reverse polarity,		40 g plug version	
	short-circuit	EMC ratings	Acc. to EN 50 082-2	
Power ON delay	≤ 50 ms	ENV 50 140 RF Electromagnetic	10 V/m	
Frequency of operating		field AM, 80-1000 MHz, Level 3	10 V/m	
cycles (f)	<b>EI 5510</b> 500 Hz	ENV 50 204 RF Electromagnetic		
	<b>EI 5515</b> 250 Hz	field PM, 80-900 MHz, Level 3	10 V/m	
Indication for output ON	LED, yellow	EN 61000-4-4 Fast transient	4.137	
Assured operating dist. (S <sub>a</sub> )	$0 \leq S_a \leq 0.81 \ S_n$	Rep. freq. 5 kHz, Level 3	1 kV	
Repeat accuracy (R)	≤5%	Approvals	UL, CSA	
Hysteresis (H)		CE-marking	Yes	
(Differential travel)	1 to 15% of sensing distance			
Effective operating dist. (S <sub>r</sub> )	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$			
Usable operating dist. (S <sub>u</sub> )	$0.9 \text{ x } S_r \le S_u \le 1.1 \text{ x } S_r$			



#### **Dimensions**



# **Wiring Diagrams**



#### **Accessories**

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

## **Delivery Contents**

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

#### **Installation Hints**

