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