

Proximity Sensors Capacitive Flat Pack Polycarbonate Housing Type EC 5525, DC

TRIPLESIELD™

CARLO GAVAZZI



- Featuring **TRIPLESIELD™** sensor protection
- Adjustable sensing distance 4-25 mm
- Rated operational voltage: 10-40 VDC
- Output: DC 200 mA, NPN or PNP
- Make and break switching function, LED indication
- Capacitive, Inductive and Photoelectric flat pack series in PC housing, IP 67
- High noise immunity
- Universal flush and non-flush mountable
- Plug and cable versions

Product Description

Capacitive proximity switches with sensing distance 16 mm flush mounted and sensing distance 25 mm non-flush mounted by adjustment. 4-wire DC output with both make (NO) and break (NC)

switching. Flat pack housing, size (WxHxD) 35 x 55 x 15 mm made in polycarbonate. Easy mounting with only two M4 screws. Ideal for use in material handling and plastic machinery applications.

Ordering Key

EC 55 25 NPA P-1

Capacitive proximity switch
Housing
Rated operational distance
Output type
Housing material
Connection type

Type Selection

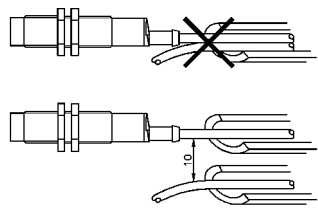
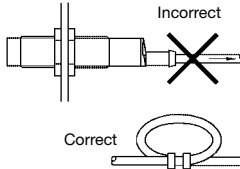
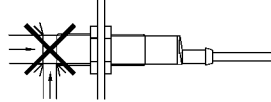
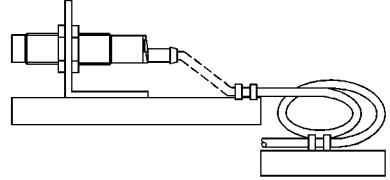
Housing dimensions W x H x D	Rated operating dist. (S _n) ¹⁾ Flush/non-flush	Ordering no. NPN/cable Make & break swit.	Ordering no. NPN/plug Make & break swit.	Ordering no. PNP/cable Make & break swit.	Ordering no. PNP/plug Make & break swit.
35 x 55 x 15	16/25 mm	EC 5525 NPAP	EC 5525 NPAP-1	EC 5525 PPAP	EC 5525 PPAP-1

¹⁾ Object: Grounded steel plate

Specifications

Rated operating dist. (S_n)	4 to 25 mm factory set at 25 mm	Frequency of operating cycles (f)	50 Hz
Sensitivity	Adj. 270° single turn pot.meter	Indication for output ON	LED, yellow
Effective operating dist. (S_r)	$0.9 \times S_n \leq S_r \leq 1.1 \times S_n$	Environment	
Usable operating dist. (S_u)	$0.8 \times S_r \leq S_u < 1.2 \times S_r$	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Repeat accuracy (R)	≤ 5%	Temperature	
Hysteresis (H)	3 to 20% of sensing distance	Operating temperature	-25 to +80°C (-13 to +176°F)
Rated operational volt. (U_B)	10 to 40 VDC (ripple incl.)	Storage temperature	-40 to +85°C (-40 to +185°F)
Ripple	≤ 10%	Housing material	Polycarbonate (PC), grey
Rated operational current (I_e) Continuous	≤ 200 mA	Connection	
No-load supply current (I_o)	≤ 10 mA (no load)	Cable	Grey, 2 m, 4 x 0.34 mm ² Oil proof, PVC
Voltage drop (U_d)	≤ 2.5 VDC at max. load	Plug (-1)	M12 x 1
Protection	Reverse polarity, short-circuit, transients	Cable for plug (-1)	CON.1A-series
		Weight (incl. nuts)	125 g (cable version) 40 g (plug version)
		Approvals	UL, CSA
		CE-marking	Yes

Installation Hints (cont.)

<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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Delivery Contents

- Capacitive switch: EC55.. PAP(-1)
- Screw driver
- **Packaging:** Cardboard box
- Installation & Adjustment Guide

Accessories

- Plugs CON.1A.. serie

For further information refer to "Accessories".