



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

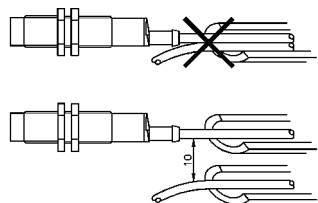
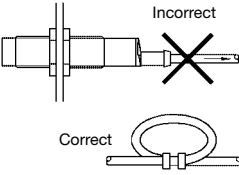
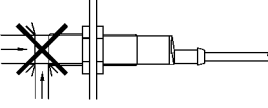
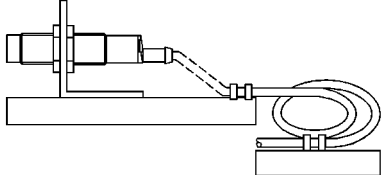
Housing dimensions W x H x D	Rated operating dist. (S _n) ¹⁾ Flush/non-flush	Ordering no. NPN/cable Make & break swit.	Ordering no. NPN/plug Make & break swit.	Ordering no. PNP/cable Make & break swit.	Ordering no. PNP/plug Make & break swit.
35 x 55 x 15	16/25 mm	EC 5525 NPAP	EC 5525 NPAP-1	EC 5525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