

Proximity Sensors Capacitive Thermoplastic Polyester Housing Type CA, M18, AC

TRIPLESHIELD™

CARLO GAVAZZI



- Featuring **TRIPLESHIELD™** sensor protection
- Adjustable sensing distance 3-8 mm or 3-12 mm
- Rated operational voltage: 20-250 VAC
- Output: SCR
- Make or break switching function
- LED indication
- High noise immunity
- Flush and non-flush types
- Plug and cable versions
- DC versions in the same housing

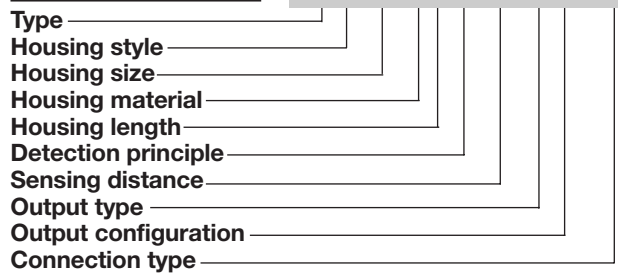
Product Description

Capacitive proximity switches with either sensing distance 8 mm flush mounted in metal or sensing distance 12 mm non-flush mounted. 2-wire AC output with make (NO) or break

(NC) switching. Grey M18 polyester housing with 2 m PVC cable or M12 plug. Ideal for use in level and plastic machinery applications.

Ordering Key

CA18CLN12TOM6



Type Selection

Housing diameter	Rated operating dist. (S _n) ¹⁾	Mounting	Ordering no. SCR/cable Make switching	Ordering no. SCR/plug Make switching	Ordering no. SCR/cable Break switching	Ordering no. SCR/plug Break switching
M18	8 mm	Flush (built-in)	CA18CLF08TO	CA18CLF08TOM6	CA18CLF08TC	CA18CLF08TCM6
M18	12 mm	Non-flush	CA18CLN12TO	CA18CLN12TOM6	CA18CLN12TC	CA18CLN12TCM6

¹⁾ Object: Grounded steel plate

Specifications

Rated operating dist. (S_n) CA18CLF08	3 to 8 mm factory set at 8 mm	Frequency of operating cycles (f)	10 Hz
CA18CLN12	3 to 12 mm factory set at 12 mm	Indication for output ON	LED, yellow
Sensitivity	Adj. 270° turn pot. meter	Environment Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Effectiv operation dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Temperature Operating temperature Storage temperature	-25° to +80°C (-13° to +176°F) -40° to +85°C (-40° to +185°F)
Usable operation dist. (S_u)	0.8 x S _r ≤ S _u ≤ 1.2 x S _r	Housing material Body Front Cable end Nuts	Grey, thermoplastic polyester Grey, polyester Polyester Black, reinforced nylon
Repeat accuracy (R)	≤ 5%	Connection Cable Plug (M6) Cable for plug (M6)	Grey, 2 m, 2 x 0.5 mm ² Oil proof PVC M12 x 1, double keyed CON.6A-series
Hysteresis (H)	4 to 20% of sensing distance	Weight Cable version Plug version	110 g 30 g
Rated operational volt. (U_B)	20 to 250 VAC (ripple included)	Approvals CE-marking	UL, CSA Yes
Ripple	≤ 10%		
Rated operational current (I_e) Continuous Short-time	≤ 500 mA < 2.5 A (max. 20 ms)		
Min. load current	≤ 10 mA		
Voltage drop (U_d)	≤ 10 VAC (at loads ≥ 20 mA)		
Protection	Reverse polarity, short-circuit, transients		
Power ON delay	≤ 100 ms		

