

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

TRIPLESIELD™

CARLO GAVAZZI



- Featuring **TRIPLESIELD™** sensor protection
- Rated operational voltage: 20-250 VAC
- Adjustable sensing distance 3-8 mm or 3-12 mm
- 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

Capacitive proximity switch	
Housing style	
Housing size	
Housing material	
Housing length	
Detection principle	
Sensing distance	
Output type	
Output configuration	
Connection type	

Type Selection

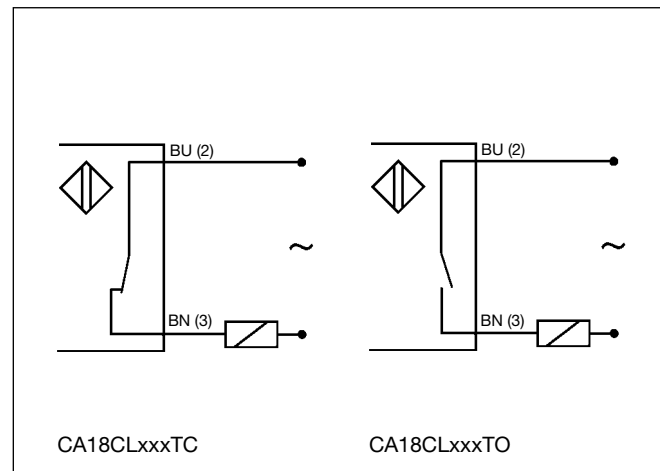
Housing diameter	Rated operating dist. (S _n) ¹⁾	Mounting	Ordering no. SCR/cable Make switching	Ordering no. SCR/plug Make switching	Ordering no. SCR/cable Break switching	Ordering no. SCR/plug Break switching
M18	8 mm	Flush (built-in)	CA18CLF08TO	CA18CLF08TOM6	CA18CLF08TC	CA18CLF08TCM6
M18	12 mm	Non-flush	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	Indication for output ON	LED, yellow
CA18CLN12	3 to 12 mm factory set at 12 mm	Environment	
Sensitivity	Adj. 270° turn pot. meter	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Effective operation dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Temperature	
Usable operation dist. (S_u)	0.8 x S _r ≤ S _u ≤ 1.2 x S _r	Operating temperature	-25° to +80°C (-13° to +176°F)
Repeat accuracy (R)	≤ 5%	Storage temperature	-40° to +85°C (-40° to +185°F)
Hysteresis (H)	4 to 20% of sensing distance	Housing material	
Rated operational volt. (U_B)	20 to 250 VAC (ripple incl.)	Body	Grey, thermoplastic polyester
Ripple	≤ 10%	Front	Grey, polyester
Rated operational current (I_e)		Cable end	Polyester
Continuous	≤ 500 mA	Nuts	Black, reinforced nylon
Short-time	< 2.5 A (max. 20 ms)	Connection	
Min. load current	≤ 10 mA	Cable	Grey, 2 m, 2 x 0.5 mm ²
Voltage drop (U_d)	≤ 10 VAC (at loads ≥ 20 mA)	Plug (M6)	Oil proof PVC
Protection	Transients	Cable for plug (M6)	M12 x 1, double keyed CON.6A-series
Power ON delay	≤ 100 ms	Weight	
Freq. of operating cycles (f)	10 Hz	Cable version	110 g
		Plug version	30 g
		Approvals	UL, CSA
		CE-marking	Yes

Wiring Diagrams



CA18CL....

LED

Max.

Min.

Sensitivity

tive sensor is referenced to a grounded metal plate (ST37). For additional information regarding dielectric ratings of materials please refer to Technical Information.



Delivery Contents

- Capacitive switch: CA18CL...
- Screw driver
- 2 nuts
- **Packaging:** Cardboard box
- Installation & Adjustment Guide

Accessories

- Plugs CON.6A-..series.

For further information refer to “Accessories”.