

# 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.

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## Ordering Key

**CA18CLN12TOM6**

Capacitive proximity switch	CA18CLN12TOM6
Housing style	CA18CLN12TOM6
Housing size	CA18CLN12TOM6
Housing material	CA18CLN12TOM6
Housing length	CA18CLN12TOM6
Detection principle	CA18CLN12TOM6
Sensing distance	CA18CLN12TOM6
Output type	CA18CLN12TOM6
Output configuration	CA18CLN12TOM6
Connection type	CA18CLN12TOM6

## Type Selection

Housing diameter	Rated operating dist. (S <sub>n</sub> ) <sup>1)</sup>	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

<sup>1)</sup> Object: Grounded steel plate

## Specifications

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



## **Delivery Contents**

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

## **Accessories**

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- Plugs CON.6A-..series.