

# 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 (NC) switching. Grey M18 polyester housing 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	_____
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 <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>Frequency of operating cycles (f)</b>	10 Hz
CA18CLN12	3 to 12 mm factory set at 12 mm	<b>Indication for output ON</b>	LED, yellow
<b>Sensitivity</b>	Adj. 270° turn pot. meter	<b>Environment</b> Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
<b>Effectiv operation dist. (S<sub>r</sub>)</b>	0.9 × S <sub>n</sub> ≤ S <sub>r</sub> ≤ 1.1 × S <sub>n</sub>	<b>Temperature</b> Operating temperature	-25° to +80°C (-13° to +176°F)
<b>Usable operation dist. (S<sub>u</sub>)</b>	0.8 × S <sub>r</sub> ≤ S <sub>u</sub> ≤ 1.2 × S <sub>r</sub>	Storage temperature	-40° to +85°C (-40° to +185°F)
<b>Repeat accuracy (R)</b>	≤ 5%	<b>Housing material</b> Body	Grey, thermoplastic polyester
<b>Hysteresis (H)</b>	4 to 20% of sensing distance	Front	Grey, polyester
<b>Rated operational volt. (U<sub>B</sub>)</b>	20 to 250 VAC (ripple included)	Cable end	Polyester
<b>Ripple</b>	≤ 10%	Nuts	Black, reinforced nylon
<b>Rated operational current (I<sub>e</sub>)</b> Continuous	≤ 500 mA	<b>Connection</b> Cable	Grey, 2 m, 2 × 0.5 mm <sup>2</sup>
Short-time	< 2.5 A (max. 20 ms)	Plug (M6)	Oil proof PVC
<b>Min. load current</b>	≤ 10 mA	Cable for plug (M6)	M12 × 1, double keyed CON.6A-series
<b>Voltage drop (U<sub>d</sub>)</b>	≤ 10 VAC (at loads ≥ 20 mA)	<b>Weight</b> Cable version	110 g
<b>Protection</b>	Reverse polarity, short-circuit, transients	Plug version	30 g
<b>Power ON delay</b>	≤ 100 ms	<b>Approvals</b>	UL, CSA
		<b>CE-marking</b>	Yes

## Dimensions

