

# Proximity Sensors Capacitive Thermoplastic Polyester Housing Type CA, M18, DC

**TRIPLESIELD™**

**CARLO GAVAZZI**



- Featuring **TRIPLESIELD™** sensor protection
- Adjustable sensing distance 3-8 mm or 3-12 mm
- Rated operational voltage: 10-40 VDC
- Output: DC 200 mA, NPN or PNP
- Make and break switching function
- LED indication
- High noise immunity
- Flush and non-flush types
- Plug and cable versions

## Product Description

Capacitive proximity switches with either sensing distance 8 mm flush mounted in metal or sensing distance 12 mm non-flush mounted. 4-wire DC output with both make (NO) and

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

**CA18CLN12NAM1**

Type	CA
Housing style	18
Housing size	CL
Housing material	N
Housing length	12
Detection principle	NA
Sensing distance	M
Output type	1
Output configuration	
Connection type	

## Type Selection

Housing diameter	Rated operating dist. (S <sub>n</sub> ) <sup>1)</sup>	Mounting	Ordering no. Transistor NPN/cable Make & break switching	Ordering no. Transistor NPN/plug Make & break switching	Ordering no. Transistor PNP/cable Make & break switching	Ordering no. Transistor PNP/plug Make & break switching
M18	8 mm	Flush (built-in)	CA18CLF08NA	CA18CLF08NAM1	CA18CLF08PA	CA18CLF08PAM1
M18	12 mm	Non-flush	CA18CLN12NA	CA18CLN12NAM1	CA18CLN12PA	CA18CLN12PAM1

<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> Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
<b>Sensitivity</b>	Adj. 270° turn pot. meter	<b>Temperature</b> Operating temperature	-25° to +80°C (-13° to +176°F)
<b>Effectiv 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>	Storage temperature	-40° to +85°C (-40° to +185°F)
<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>	<b>Housing material</b> Body	Grey, thermoplastic polyester
<b>Repeat accuracy (R)</b>	≤ 5%	Front	Grey, polyester
<b>Hysteresis (H)</b>	4 to 20% of sensing distance	Cable end	Polyester
<b>Rated operational volt. (U<sub>B</sub>)</b>	10 to 40 VDC (ripple included)	Nuts	Black, reinforced nylon
<b>Ripple</b>	≤ 10%	<b>Connection</b> Cable	Grey, 2 m, 4 x 0.34 mm <sup>2</sup> Oil proof PVC
<b>Rated operational current (I<sub>e</sub>)</b> Continuous	≤ 200 mA	Plug (M1)	M12 x 1
<b>No-load supply current (I<sub>o</sub>)</b>	≤ 10 mA	Cable for plug (M1)	CON.1A-series
<b>Voltage drop (U<sub>d</sub>)</b>	≤ 2.5 VDC at max. load	<b>Weight</b> Cable version	110 g
<b>Protection</b>	Reverse polarity, short-circuit, transients	Plug version	30 g
<b>Frequency of operating cycles (f)</b>	30 Hz	<b>Approvals</b> CE-marking	UL, CSA Yes



Dimensions

