

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

**TRIPLESIELD™**

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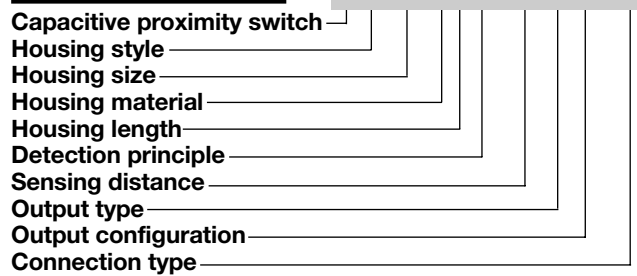
- Featuring **TRIPLESIELD™** sensor protection
- Adjustable sensing distance 3-8 mm or 3-12 mm
- Rated operational voltage: 10-40 VDC
- Output: DC 200 mA, NPN or PNP
- Make and break switching function
- LED indication
- High noise immunity
- Flush and non-flush types
- Plug and cable versions

## 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 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>	
<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>	10 to 40 VDC (ripple included)	Body	Grey, thermoplastic polyester
<b>Ripple</b>	≤ 10%	Front	Grey, polyester
<b>Rated operational current (I<sub>o</sub>)</b>		Cable end	Polyester
Continuous	≤ 200 mA	Nuts	Black, reinforced nylon
<b>No-load supply current (I<sub>o</sub>)</b>	≤ 10 mA	<b>Connection</b>	
<b>Voltage drop (U<sub>d</sub>)</b>	≤ 2.5 VDC at max. load	Cable	Grey, 2 m, 4 x 0.34 mm <sup>2</sup> Oil proof PVC
<b>Protection</b>	Reverse polarity, short-circuit, transients	Plug (M1)	M12 x 1
<b>Frequency of operating cycles (f)</b>	30 Hz	Cable for plug (M1)	CON.1A-series
		<b>Weight</b>	
		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.1A-..series.

For further information refer to “Accessories”.