

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	_____
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. 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

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	Degree of protection IP 67 (Nema 1, 3, 4, 6, 13)
Sensitivity	Adj. 270° turn pot. meter	Temperature	Operating temperature -25° to +80°C (-13° to +176°F) Storage temperature -40° to +85°C (-40° to +185°F)
Effectiv operation dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Housing material	Body Grey, thermoplastic polyester Front Grey, polyester Cable end Polyester Nuts Black, reinforced nylon
Usable operation dist. (S_u)	0.8 x S _r ≤ S _u ≤ 1.2 x S _r	Connection	Cable Grey, 2 m, 4 x 0.34 mm ² Oil proof PVC M12 x 1 CON.1A-series
Repeat accuracy (R)	≤ 5%	Plug (M1)	
Hysteresis (H)	4 to 20% of sensing distance	Cable for plug (M1)	
Rated operational volt. (U_B)	10 to 40 VDC (ripple included)	Weight	Cable version 110 g Plug version 30 g
Ripple	≤ 10%	Approvals	UL, CSA
Rated operational current (I_a) Continuous	≤ 200 mA	CE-marking	Yes
No-load supply current (I_o)	≤ 10 mA		
Voltage drop (U_d)	≤ 2.5 VDC at max. load		
Protection	Reverse polarity, short-circuit, transients		
Frequency of operating cycles (f)	30 Hz		

Dimensions

