

Proximity Sensors Capacitive Thermoplastic Polyester Housing Type CA, M 30, 2-wire AC/DC

TRIPLESIELD™

CARLO GAVAZZI



- Featuring TRIPLESIELD™ Sensor Protection
- Temperature stability
- Humidity compensation circuit
- Adjustable sensing distance 2-16 mm or 2-25 mm
- Rated operational voltage: 20-250 VAC/DC
- Output: Power MOSFET
- Make and break switching function, selectable
- LED indication
- High noise immunity
- Flush and non-flush types
- Cable and plug versions available

Product Description

Capacitive proximity switches with either sensing distance 16 mm flush mounted or 25 mm sensing distance non-flush mounted. 2-wire AC/DC output with a switch

for choosing NO and NC switching. Grey M 30 polyester housing with 2 m PVC cable or plug. Ideal for use in level and plastic machinery applications.

Ordering Key

CA30CLF25CPM6

Type: Cap. proximity switch	CA
Housing style	30
Housing size	CL
Housing material	F
Housing length	25
Detection principle	C
Sensing distance	P
Output type	M
Output configuration	6
Connection	

Type Selection

Housing diameter	Rated operating dist. (S _n) ¹⁾	Mounting	Ordering no. Power MOSFET, cable Make & break switching	Ordering no. Power MOSFET, plug Make & break switching
M30 ²⁾	16 mm	Flush (built-in)	CA30CLF16CP	CA30CLF16CPM6
M30	25 mm	Non-flush	CA30CLN25CP	CA30CLN25CPM6

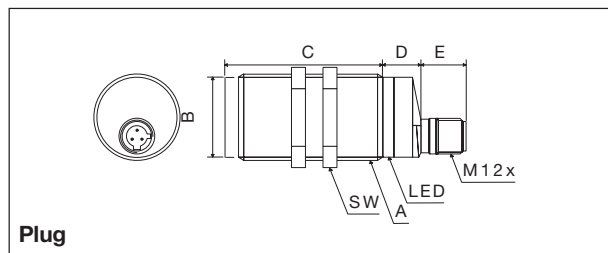
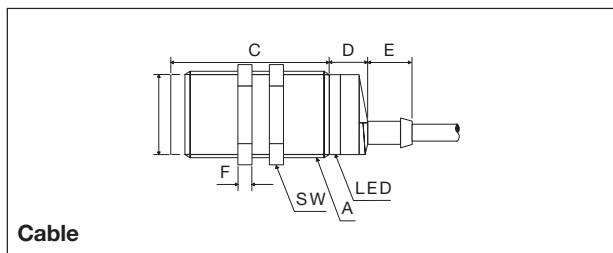
¹⁾ Object: Grounded steel plate

²⁾ No humidity compensation

Specifications

Rated operating dist. (S_n) CA30CL.16CP..: CA30CL.25CP..:	2 to 16 mm (preset at 16 mm) 2 to 25 mm (preset at 25 mm)	Protection	Transients, reverse polarity
Sensitivity	Adj. multiturn pot. meter	Power ON delay	≤ 200 ms
Effective operating dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Freq. of operating cycles (f)	10 Hz
Usable operating dist. (S_u)	0.8 x S _r ≤ S _u < 1.2 x S _r	Indication for output ON	LED, yellow
Repeat accuracy (R)	≤ 5%	Environment	
Hysteresis (H)	4 to 20% of sensing distance	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Rated operational volt. (U_B)	20 to 250 VAC/DC (ripple included)	Temperature (T_A)	
Ripple	≤ 10%	Operating temperature	-25° to +80°C (-13° to +176°F)
Rated operational current (I_a)		Storage temperature	-40° to +85°C (-40° to +185°F)
Continuous	≤ 250 mA DC @ T _A ≤ 50°C ≤ 200 mA DC @ T _A ≤ 80°C ≤ 350 mA AC @ T _A ≤ 50°C ≤ 250 mA AC @ T _A ≤ 80°C < 2.5 A (max. 20 ms)	Housing material	
Short-time		Body	Grey, thermoplastic polyester
Min. load current	10 mA	Cable end	Polyester
OFF-state current (I_s)	< 1.9 mA (@ 20-250 VAC) < 1.7 mA (@ 20-250 VDC)	Nuts	Black reinforced nylon
Voltage drop (U_d)	≤ 5.5 VAC/DC @ I _{e max}	Connection	
		Cable	Grey, 2 m, 2 x 0.5 mm ² Oil proof, PVC
		Plug (-6)	M12 x 1 double keyed
		Cable for plug (-6)	CON.-6A-series
		Weight (incl. nuts)	
		CA30CL.16CP..:	140 g
		CA30CL.25CP..:	150 g
		Approvals	UL, CSA
		CE-marking	Yes

Dimensions



Type	A	B Ø mm	C mm	D mm	E mm	F mm	SW mm
CA30CLF16CP(-M6)	M 30 x 1.5 x 50	28	50	13.6	15.4	5	36
CA30CLN25CP(-M6)	M 30 x 1.5 x 50	28	62	13.6	15.4	5	36