

Proximity Sensors Capacitive Thermoplastic Polyester Housing Types CA30CAN/CAF.....

CARLO GAVAZZI



- 4TH Generation **TRIPLESHIELD™**
- Adjustable sensing distance: 2 - 20 mm Flush or 4-30 mm Non-flush
- Protection: short-circuit, transients and reverse polarity
- Dust and humidity compensation
- Dust or Temperature alarm output
- Rated operational voltage: 10-40 VDC
- Output: DC 200 mA, NPN or PNP
- Standard Output: NO and NC
- LED indications for Power-supply, Output and Stability
- IP67, IP69K, Nema 1, 2, 4, 4X, 5, 6, 6P, 12
- Cable and M12 connector versions available



Product Description

The CA30CA.. capacitive proximity switches feature an improved 4TH Generation **TRIPLESHIELD™** technology. Furthermore, these sensors feature increased immunity to electromagnetic interference (EMI), especially to frequency drives. Not only does 4TH Generation **TRIPLESHIELD™** feature an increased EMI, but it also increases the immunity to humidity and dust. The implementation of stability indication eases the setup procedure as both Stable ON and Stable OFF positions are

indicated by the Green and yellow LEDs.

The sensing distance is increased by 20 - 25 % allowing room for additional stable detection.

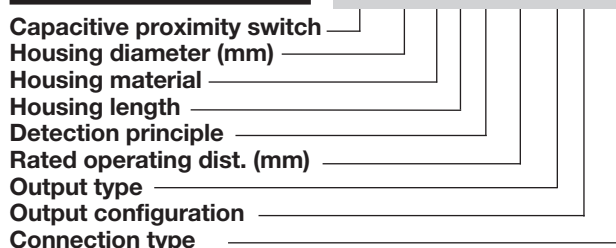
The Dust Alarm function gives an early warning that the sensing surroundings have to be cleaned.

The Temperature alarm function raises an alarm if the sensing surface goes beyond 60 degree celcius.

The sensor housing is featuring IP69K as well as approval by ECOLAB for cleaning- and disinfection agents.

Ordering Key

CA30CAN25NAM1



Type Selection

Housing diameter	Sensor type	Output type	Output function	Connection	Rated operating distance (S _n)	Ordering no. Standard	Ordering no. Dust alarm	Ordering no. Temperature alarm
M 30	Flush	NPN	NO+NC	Cable	2 - 16 mm	CA30CAF16NA		
M 30	Flush	NPN	NO+NC	M12 Plug	2 - 16 mm	CA30CAF16NAM1		
M 30	Flush	PNP	NO+NC	Cable	2 - 16 mm	CA30CAF16PA		
M 30	Flush	PNP	NO+NC	M12 Plug	2 - 16 mm	CA30CAF16PAM1		
M 30	Flush	PNP	NO	Cable	2 - 16 mm		CA30CAF16PODU	CA30CAF16POTA
M 30	Flush	PNP	NC	Cable	2 - 16 mm		CA30CAF16PCDU	CA30CAF16PCTA
M 30	Non-Flush	NPN	NO+NC	Cable	4 - 25 mm	CA30CAN25NA		
M 30	Non-Flush	NPN	NO+NC	M12 Plug	4 - 25 mm	CA30CAN25NAM1		
M 30	Non-Flush	PNP	NO+NC	Cable	4 - 25 mm	CA30CAN25PA		
M 30	Non-Flush	PNP	NO+NC	M12 Plug	4 - 25 mm	CA30CAN25PAM1		
M 30	Non-Flush	PNP	NO	Cable	4 - 25 mm		CA30CAN25PODU	CA30CAN25POTA
M 30	Non-Flush	PNP	NC	Cable	4 - 25 mm		CA30CAN25PCDU	CA30CAN25PCTA

Specifications EN 60947-5-2

Rated operating distance (S_n) Non-flush mounted sensor	4 - 25 mm (factory setting 25 mm), (ref. target 75x75 mm ST37, 1 mm thick, grounded)	Sensitivity control Electrical adjustment Mechanical adjustment Adjustable distance Flush types Non-flush types	Adjustable by potentiometer 11 turns 16 turns 2 to 20 mm 4 to 30 mm
Flush mounted sensor	2 - 16 mm (factory setting 16 mm - non-flush mounted) (ref. target 48x48 mm ST37, 1 mm thick, grounded)	Effective operating dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
		Usable operating dist. (S_u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r