

CA18CAN/CAF

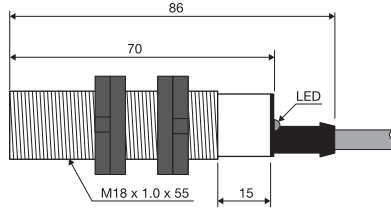
			M18-DC 4 TH Generation TRIPLESIELD™					
			Flush mountable			Non-flush mountable		
Conne- ction	Out- put	Output function	Standard	Dust alarm	Temperature alarm	Standard	Dust alarm	Temperature alarm
Cable	NPN	NO + NC	CA18CAF08NA			CA18CAN12NA		
		NO						
		NC						
	PNP	NO + NC	CA18CAF08PA			CA18CAN12PA		
		NO		CA18CAF08PODU	CA18CAF08POTA		CA18CAN12PODU	CA18CAN12POTA
		NC		CA18CAF08PCDU	CA18CAF08PCTA		CA18CAN12PCDU	CA18CAN12PCTA
Plug	NPN	NO + NC	CA18CAF08NAM1			CA18CAN12NAM1		
		NO						
		NC						
	PNP	NO + NC	CA18CAF08PAM1			CA18CAN12PAM1		
		NO						
		NC						
Sensing distance			0 - 8 mm			0 - 12 mm		
Adjustable distance			2 - 10 mm			3 - 15 mm		
Sensitivity control			Adjustable by multiturn potentiometer. Electrical: 11 turns. Mechanical: 16 turns					
Rated operational voltage (U _e)			10 to 40 V DC (ripple included)					
No load supply current (I _e)			≤ 12 mA					
Minimum operational current (I _m)			≤ 0,5 mA					
Off-State current (I _s)			≤ 100 µA					
Voltage drop, digital (U _d)			≤ 2.0 V DC @ 200 mA DC					
Output function			NPN or PNP					
Capacitive load			100 nF @ 200 mA					
Sensor protection			Shortcircuit (A), reverse polarity (B) and transients (C)					
Frequency of operating cycles (f)			50 Hz					
Response time t _{ON} or t _{OFF}			≤ 10 mS					
Power on delay (t _v)			≤ 200 mS					
Hysteresis			3 - 20%					
Led indications			Output ON: Yellow LED. Power and signal stability: Green LED					
Degree of protection			IP 67, IP 68, IP 69K (IEC 60529; 60943-1)					
NEMA type			1, 2, 4, 4X, 5, 6, 6P, 12					
Electrostatic discharge			Contact discharge: > 40 kV. Air discharge: > 40 kV (EN 61000-4-2)					
Electrical fast transients/burst			±4kV (EN 61000-4-4)					
Surge			Power-supply: > 2kV (with 500 Ω). Sensor output: > 2kV (with 500 Ω) (EN 61000-4-5)					
Wire conducted disturbances			> 20 Vrms (EN 61000-4-6)					
Power - frequency magnetic fields			Continuous: > 60 A/m, 75.9 µ tesla. Short-time: > 600 A/m, 759 µ tesla (EN 61000-4-8)					
Radiated RF electromagnetic fields			> 20 V/m (EN 61000-4-3)					
Ambient temperature			Operating: -30 to +85°C (-22 to +185°F). Storage: -40 to +85°C (-40 to +185°F)					
Max. temperature on sensing face			120°C (248°F)					
Temperature alarm output			-		60°C ± 5°C (140°F ± 41°F)	-		60°C ± 5°C (140°F ± 41°F)
CE marking			According to EN 60947-5-2					
Approvals			cULus (UL508), ECOLAB					
Installation category			III (IEC60664/60664A; 60947-1)					
Pollution degree			3(IEC60664/60664A; 60947-1)					
MTTF _d			825 years @ 40°C (104°F)					
Vibration			10 to 150 Hz, (1,0 mm/15G; IEC 60068-2-6) in X,Y and Z direction					
Shock			30G /11 mS. 3 positive and 3 negative in X,Y and Z direction (IEC 60068-2-27)					
Rough handling shocks			2 times from 1m, 100 times from 0,5m (IEC 60068-2-31)					
Material			Body: PBT light grey, 30% glass reinforced. Trimmer shaft: Nylon. Backpart: PA12 black					
Tightening torque			≤ 2.6 Nm					
Cable			PCV, grey, 2 m, 4 x 0.34 mm ² , Ø=5.2 mm					
Connector			M12, 4-pin					
Dimensions			Cable and Plug: M18 x 61 mm					
Weight incl. packaging			Cable version ≤ 150 g, Plug version ≤ 75 g					
Accessories, additional			Connectors: CONM14NF-... Types. Mounting brackets: AMB18-A...					

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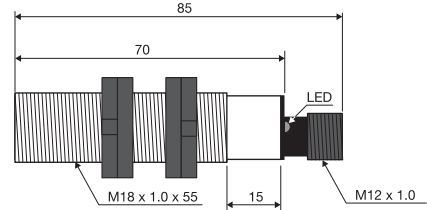
			M30-DC 4 TH Generation TRIPLESIELD™					
			Flush mountable			Non-flush mountable		
Conne- ction	Out- put	Output function	Standard	Dust alarm	Temperature alarm	Standard	Dust alarm	Temperature alarm
Cable	NPN	NO + NC	CA30CAF16NA			CA30CAN25NA		
		NO						
		NC						
	PNP	NO + NC	CA30CAF16PA			CA30CAN25PA		
		NO		CA30CAF16PODU	CA30CAF16POTA		CA30CAN25PODU	CA30CAN25POTA
		NC		CA30CAF16PCDU	CA30CAF16PCTA		CA30CAN25PCDU	CA30CAN25PCTA
Plug	NPN	NO + NC	CA30CAF16NAM1			CA30CAN25NAM1		
		NO						
		NC						
	PNP	NO + NC	CA30CAF16PAM1			CA30CAN25PAM1		
		NO						
		NC						
Sensing distance			0 - 16 mm			0 - 25 mm		
Adjustable distance			2 - 20 mm			4 - 30 mm		
Sensitivity control			Adjustable by multiturn potentiometer. Electrical: 11 turns. Mechanical: 16 turns					
Rated operational voltage (U _a)			10 to 40 V DC (ripple included)					
No load supply current (I _o)			≤ 12 mA					
Minimum operational current (I _m)			≤ 0,5 mA					
Off-State current (I _i)			≤ 100 µA					
Voltage drop, digital (U _d)			≤ 2.0 V DC @ 200 mA DC					
Output function			NPN or PNP					
Capacitive load			100 nF @ 200 mA					
Sensor protection			Shortcircuit (A), reverse polarity (B) and transients (C)					
Frequency of operating cycles (f)			50 Hz					
Response time t _{ON} or t _{OFF}			≤ 10 mS					
Power on delay (t _i)			≤ 200 mS					
Hysteresis			3 - 20%					
Led indications			Output ON: Yellow LED. Power and signal stability: Green LED					
Degree of protection			IP 67, IP 68, IP 69K (IEC 60529; 60943-1)					
NEMA type			1, 2, 4, 4X, 5, 6, 6P, 12					
Electrostatic discharge			Contact discharge: > 40 kV. Air discharge: > 40 kV (EN 61000-4-2)					
Electrical fast transients/burst			±4kV (EN 61000-4-4)					
Surge			Power-supply: > 2kV (with 500 Ω). Sensor output: > 2kV (with 500 Ω) (EN 61000-4-5)					
Wire conducted disturbances			> 20 Vrms (EN 61000-4-6)					
Power - frequency magnetic fields			Continuous: > 60 A/m, 75.9 µ tesla. Short-time: > 600 A/m, 759 µ tesla (EN 61000-4-8)					
Radiated RF electromagnetic fields			> 20 V/m (EN 61000-4-3)					
Ambient temperature			Operating: -30 to +85°C (-22 to +185°F). Storage: -40 to +85°C (-40 to +185°F)					
Max. temperature on sensing face			120°C (248°F)					
Temperature alarm output			-		60°C ± 5°C (140°F ± 41°F)		-	
CE marking			According to EN 60947-5-2					
Approvals			cULus (UL508), ECOLAB					
Installation category			III (IEC60664/60664A; 60947-1)					
Pollution degree			3(IEC60664/60664A; 60947-1)					
MTTF _a			829 years @ 40°C (104°F)					
Vibration			10 to 150 Hz, (1,0 mm/15G; IEC 60068-2-6) in X,Y and Z direction					
Shock			30G /11 mS. 3 positive and 3 negative in X,Y and Z direction (IEC 60068-2-27)					
Rough handling shocks			2 times from 1m, 100 times from 0,5m (IEC 60068-2-31)					
Material			Body: PBT light grey, 30% glass reinforced. Trimmer shaft: Nylon. Backpart: PA12 black					
Tightening torque			≤ 7.5 Nm					
Cable			PCV, grey, 2 m, 4 x 0.34 mm ² , Ø=5.2 mm					
Connector			M12, 4-pin					
Dimensions			Cable and Plug: M30 x 61 mm					
Weight incl. packaging			Cable version ≤ 190 g, Plug version ≤ 106 g					
Accessories, additional			Connectors: CONM14NF... Types. Mounting brackets: AMB30-A...					

DIMENSÕES

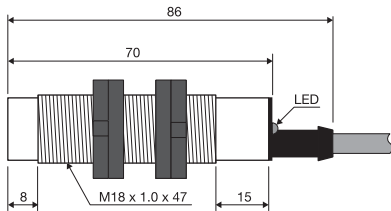
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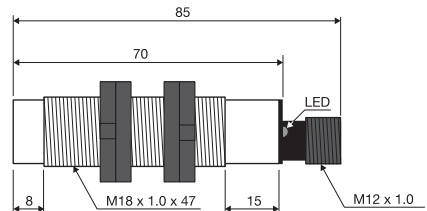
CA18CAF....M1



CA18CAN....



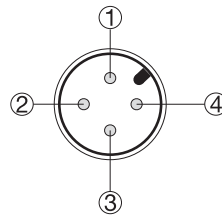
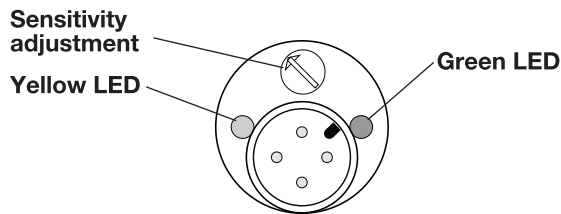
CA18CAN....M1



Cable

Plug

Backside of sensor



Colour code

- 1 Brown
- 2 White
- 3 Blue
- 4 Black