



Electric Automation
Automation specialists

Reference: CA18CAF08PCDU

Selected parameters CONNECTION Cable MATERIAL Plastic
HOUSING M18 SENSING RANGE >8 to 10 mm OUTPUT DC PNP
SYSTEM Sensor Others HOUSING M18 x 70,0 mm SENSING
RANGE 8 mm MATERIAL Thermoplastic Polyester ADDITIONAL
Dust Alarm



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Proximity Sensors Capacitive Thermoplastic Polyester Housing Types CA18CAN/
CAF.....

- 4TH Generation TRIPLESIELDTM
- Adjustable sensing distance: 2 - 10 mm Flush or 3-15 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, Target and Stability
- IP67, IP68, IP69K, Nema 1, 2, 4, 4X, 5, 6, 6P, 12
- Cable and M12 connector versions available

Product Description

Ordering Key

Capacitive proximity switch

CA18CAN12NAM1

TheCA18CA..capacitive

proximity switches feature an improved 4THGeneration TRIPLESIELDTM technology. Furthermore, these sensors feature increased immunity to electromagnetic interference(EMI),especially to frequency drives. Not only does 4THGeneration TRIPLESIELDTM feature anincreasedEMI,but it alsoincreasestheimmuni-ty to humidity and dust. The implementation of stability indication eases the setup procedure as both Stable ON and Stable OFF positions are indicatedby the Green and yellow LEDs.

The sensing distance is increased by 25 %allowing room for atd>The Dust Alarm function gives an early warningthat 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.

Housing diameter (mm) Housing material Housing length Detection principle

Rated operating dist. (mm) Output type

Output configuration

Connection type

Type Selection

Housing Sensor Output Output Connection Rated operating Ordering no. Ordering

no. Ordering no. diameter type type function distance (Sn) Standard Dust

alarm Temperature alarm

M 18 Flush NPN NO+NC Cable 0 - 8 mm CA18CAF08NA

M 18 Flush NPN NO+NC M12 Plug 0 - 8 mm CA18CAF08NAM1

M 18 Flush PNP NO+NC Cable 0 - 8 mm CA18CAF08PA

M 18 Flush PNP NO+NC M12 Plug 0 - 8 mm CA18CAF08PAM1

M 18 Flush PNP NO Cable 0 - 8 mm CA18CAF08PODUCA18CAF08POTA M 18 Flush PNP

NC Cable 0 - 8 mm CA18CAF08PCDUCA18CAF08PCTA M 18 Non-Flush NPN NO+NC

Cable 0 - 12 mm CA18CAN12NA

M 18 Non-Flush NPN NO+NC M12 Plug 0 - 12 mm CA18CAN12NAM1

M 18 Non-Flush PNP NO+NC Cable 0 - 12 mm CA18CAN12PA

M 18 Non-Flush PNP NO+NC M12 Plug 0 - 12 mm CA18CAN12PAM1

M 18 Non-Flush PNP NO Cable 0 - 12 mm CA18CAN12PODUCA18CAN12POTA

M 18 Non-Flush PNP NC Cable 0 - 12 mm CA18CAN12PCDUCA18CAN12PCTA

Specifications EN 60947-5-2

Rated operating distance (Sn)

Non-flush mounted sensor 0 - 12 mm (factory setting

12 mm),

(ref. target 36x36 mm ST37,

1 mm thick, grounded) Flush mounted sensor 0 - 8 mm (factory setting

8 mm - non-flush mounted) (ref. target 24x24 mm ST37,

1 mm thick, grounded)

Sensitivity control Adjustable by potentiometer

Electrical adjustment 11 turns Mechanical adjustment 16 turns Adjustable distance

Flush types 2 to 10 mm

Non-flush types 3 to 15 mm

Effective operating dist. (Sr) $0.9 \times Sn \leq Sr \leq 1.1 \times Sn$

Specifications are subject to change without notice (16.06.2015) 1