Reference: CA30CAF16PAM1

Selected parameters CONNECTION M12 Plug DC MATERIAL Plastic HOUSING M30 SENSING RANGE >15 to 20 mm OUTPUT DC PNP SYSTEM Sensor Others HOUSING M30 x 62,5 mm SENSING RANGE 16 mm MATERIAL Thermoplastic Polyester

Buy it at Electric Automation Network

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

• 4TH Generation TRIPLESHIELDTM
• 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, IP68, IP69K, Nema 1, 2, 4, 4X, 5, 6, 6P, 12
• Cable and M12 connector versions available

Product Description

Ordering Key

Capacitive proximity switch

CA30CAN25NAM1

TheCA30CA..capacitive
proximity switches feature an improved 4THGenera- tion TRIPLESHIELDTM tech- nology. Furthermore, these sensors feature increased immunity to electromagnetic inteference(EMI),especial- ly to frequency drives. Not only does 4THGeneration TRIPLESHIELDTM 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 20 – 25 % allowing room for atd>The Dust Alarm function gives an early warningthat the sensing surroundings have to be cleaned.

The Temperature alarm func- tion raises an alarm if the sensing surface goes beyond 60 degree celcius.
The sensor housing is featur- ing IP69K as well as approval by ECOLABfor 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
HousingSensorOutputOutput Connection Rated operatingOrdering no.Ordering no.Ordering no. diameter type type functiondistance (Sn)StandardDust alarmTemperature alarm
M 30FlushNPN NO+NC Cable0 - 16 mmCA30CAF16NA
M 30FlushNPN NO+NC M12 Plug 0 - 16 mmCA30CAF16NAM1
M 30Flush PNP NO+NC Cable0 - 16 mmCA30CAF16PA
M 30FlushPNP NO+NC M12 Plug0 - 16 mmCA30CAF16PAM1
M 30Flush PNP NO Cable0 - 16 mm CA30CAF16PODUCA30CAF16POTA M 30Flush PNP NC Cable0 - 16 mm CA30CAF16PCDUCA30CAF16PCTA M 30Flush PNP NC M12 Plug0 - 16 mm CA30CAF16PCM1DU
M 30Non-FlushNPN NO+NC Cable0 - 25 mmCA30CAN25NA
M 30Non-FlushNPN NO+NC M12 Plug 0 - 25 mmCA30CAN25NAM1
M 30Non-Flush PNP NO+NC Cable0 - 25 mmCA30CAN25PA
M 30Non-FlushPNP NO+NC M12 Plug0 - 25 mmCA30CAN25PAM1
M 30Non-Flush PNP NO Cable0 - 25 mm CA30CAN25PODUCA30CAN25POTA
M 30Non-Flush PNP NC Cable0 - 25 mm CA30CAN25PCDUCA30CAN25PCTA
Specifications EN 60947-5-2
Rated operating distance (Sn)
Non-flush mounted sensor0 - 25 mm (factory setting
25 mm),
(ref. target 75x75 mm ST37,
1 mm thick, grounded) Flush mounted sensor0 - 16 mm (factory setting
16 mm - non-flush mounted) (ref. target 48x48 mm ST37,
1 mm thick, grounded)
Sensitivity control Adjustable by potentiometer
Electrical adjustment11 turns Mechanical adjustment16 turns Adjustable distance
Flush types 2 to 20 mm
Non-flush types4 to 30 mm
Effective operating dist. (Sr)0.9 x Sn ≤ Sr ≤ 1.1 x Sn
Usable operating dist. (Su) 0.85 x Sr ≤ Su ≤ 1.15 x Sr
Specifications are subject to change without notice (16.06.2015) 1