Capacitive Level Detector For Plastic & Rubber Thermoplastic Polyester Housing Types CA, M18, M30, DC, Teach-in TRIPLESHIELDTM





- Primary designed for plastic and rubber applications
- applications
 For liquid and dry bulk material detection
- Featuring TRIPLESHIELD™ Sensor Protection
- Teach-in of sensing distance via push-button or COM-input
- · Automatic detection of NPN or PNP load
- Selectable make or break switching by means of Teach-in function
- · Protection: Short-circuit, transients and reverse polarity
- Humidity compensation
- Alarm output for unsafe operation or heavy dirt buildup on sensing surface
- 5 years of warranty

Output configuration

Connection type

Product Description

Capacitive level detector with specialized and optimized features for level detection in plastic and rubber applications.

The adjustment is easy to change by means of the single-step teach-in function. The sensing face (flush

mounted) can withstand temperatures up to 120°C.
3-wire DC output with selectable make (NO) or break (NC) switching and NPN Alarm. Grey polyester housing with 2 m PVC cable or M12 plug.

Capacitive proximity switch Housing diameter (mm) Housing material Housing length Detection principle Rated operating dist. (mm) Output type

Type Selection

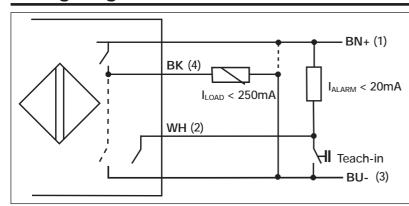
Housing diameter	Ordering no. Cable	Ordering no. Plug	
M18	CA18CLL12BP	CA18CLL12BPM1	
M 30	CA30CLL30BP	CA30CLL30BPM1	

Specifications

Sensitivity	Adjustable (Teach-in)	Environment	
Repeat accuracy (R)	≤ 5%	Degree of protection	IP 68
Hysteresis (H)	5 - 10%	Operating temperature Max. temperature on sensing face	-20° to +85°C (-4° to +185°F) 120°C (248°F)
Rated operational volt. (U _B)	10 to 40 VDC (ripple incl.)	Storage temperature	-40° to +85°C (-40° to +185°F)
Ripple	≤ 10%	Housing material	
Rated operational current (I _e)	≤ 250 mA (continuous)	Body	Grey, thermoplastic polyester Polyester, softened Black, PA12 Grilamid
No-load supply current (I _o)	≤ 12 mA	Cable end Nuts	
Voltage drop (U _d)	≤ 2.5 VDC @ max. load	Connection	Black, FA12 Gillaitild
Protection	Short-circuit, reverse polarity, transients	Cable	Grey, 2 m, 4 x 0.25 mm ² Oil proof, PVC
TRIPLESHIELD™ protection-EMC		Plug (M1) Cable for plug (M1)	M12 x 1 CON.1A-series
IEC 1000-4-2/EN 61000-4-2 IEC 1000-4-3/EN 61000-4-3 IEC 1000-4-4/EN 61000-4-4 IEC 1000-4-6/EN 61000-4-6	> 15 V/m 3 kV > 10 V	Weight Cable version - M18 / M30 Plug version - M18 / M 30	110 g/160 g 30 g/70 g
Frequency of operating	Approv	Approvals	UL, CSA
cycles (f)	5 Hz	CE-marking	Yes
Indication For output ON For safe/unsafe	LED, yellow LED, green		



Wiring Diagram



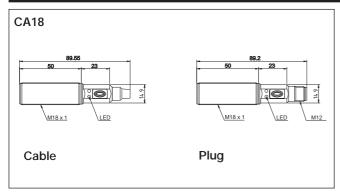
The PNP- or NPN-load will automatically be detected.

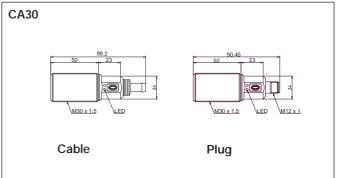
By means of the Teach-in wire, the functions described in the Teach-in Guide can be setup.

It is possible to Teach-in more sensors at the same time by connecting the WH-wires in parallel to the common "-" supply.

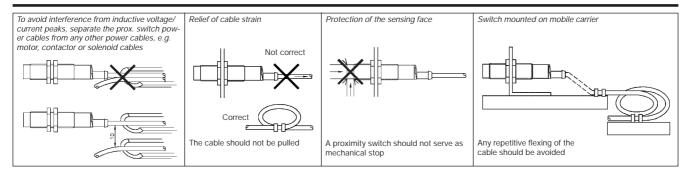
(#): Plug connections

Dimensions





Installation Hints



Delivery Contents

- Capacitive switch: CA..CLL..BP..
- Packaging: Cardboard box
- Installation & Adjustment Guide (MAN CAP ENG/GER)

Accessories

• Plugs CON.1A.. series.

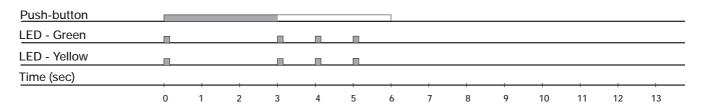
For further information please refer to "Accessories.



Teach-in Guide

Adjustment - wall No target present - tank empty

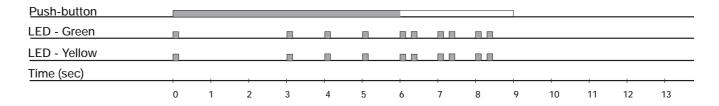
Press push-button >3 seconds until LED's are flashing one time per second. The surroundings will be calibrated when the push-button is released during the following 3 seconds



The sensor will calculate a switch-point by itself. No further calibration is needed.

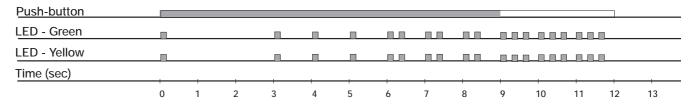
Adjustment - object Target present - tank full

The self-calculated switch-point can be changed by means of the Teach-in function for "Target present". Press push-button >6 seconds until LED's are flashing two times per second. The object will be calibrated when the push-button is released during the following 3 seconds



Adjustment - NO - NC

Press push-button >9 sec. until LED's are flashing three times per second. The status of NO-NC will toggle when the push-button is released during the following 3 seconds



Releasing the push-button after 12 sec. returns the sensor to factory settings.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Liquid Level Sensors category:

Click to view products by Carlo Gavazzi manufacturer:

Other Similar products are found below:

FSH-21 FSH-25 FSH-34 FSH-35 FSV-31 FSV-35 RSF54H100R1/8 LRNH31S41 F03-16SFC-10M F03-16SF-5M F03-16PE-5M F03
16PT-5M LBFS 1151 SCN-1518SC LL103000 LRNR31N01 MS03-PP F03-16SF-10M KSL-100-1 LS01-1B66-PP-500W LS02-1B66-S
500W LS02-1B85-PP-5000W LS03-1A85-PP-500W LRNH31S42 59630-1-T-02-F LS04-1B66-2-500W LFFS 011 T0-SKF-0.5 T0-SKF-10

T0-SKF-5 VNI3 CLP2FA1BM24 VNI1 LBFS 0111 LFFS 014 KSL-88-PP KSL-99-1 LS02-1A85-PP-500W LS02-1B85-PP-500W LS03
1A85-PA-500W MIC 1000-20 700670 BAF147B002-00A0 DFT-110 DFT-220 A94-10 CA30CLL30BP CA30CLL30BPM1 CLE1 CLE1K