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





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.

٠	Primary designed for plastic and rubber
	applicatioins

- · 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

Ordering Key

CA18CLL12BPM1 Capacitive proximity switch Housing diameter (mm) Housing material Housing length Detection principle Rated operating dist. (mm) Output type Output configuration Connection type

Type Selection

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

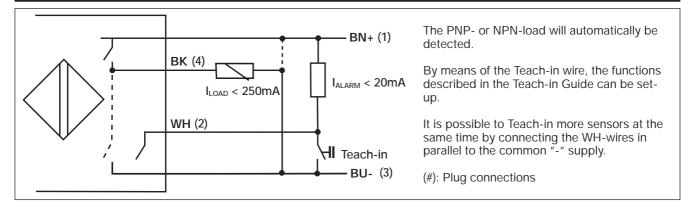
Specifications

Sensitivity	Adjustable (Teach-in)
Repeat accuracy (R)	≤ 5%
Hysteresis (H)	5 - 10%
Rated operational volt. (U _B)	10 to 40 VDC (ripple incl.)
Ripple	≤ 10%
Rated operational current (I _e)	≤ 250 mA (continuous)
No-load supply current (l _o)	≤ 12 mA
Voltage drop (U _d)	≤ 2.5 VDC @ max. load
Protection	Short-circuit, reverse polarity, transients
TRIPLESHIELD™ protection-EMC 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	30 kV > 15 V/m 3 kV > 10 V _{rms}
Frequency of operating cycles (f)	5 Hz
Indication For output ON For safe/unsafe	LED, yellow LED, green

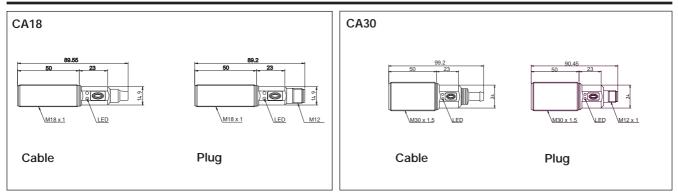
Environment Degree of protection Operating temperature Max. temperature on sensing face Storage temperature	IP 68 -20° to +85°C (-4° to +185°F) 120°C (248°F) -40° to +85°C (-40° to +185°F)
Housing material	
Body	Grey, thermoplastic polyester
Cable end	Polyester, softened
Nuts	Black, PA12 Grilamid
Connection	
Cable	Grey, 2 m, 4 x 0.25 mm ²
	Oil proof, PVC
Plug (M1)	M12 x 1
Cable for plug (M1)	CON.1A-series
Weight	
Cable version - M18 / M30	110 g/160 g
Plug version - M18 / M 30	30 g/70 g
Approvals	UL, CSA
CE-marking	Yes

CARLO GAVAZZI

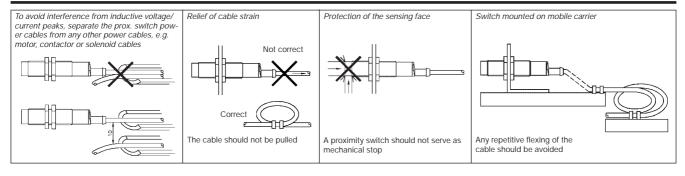
Wiring Diagram



Dimensions



Installation Hints



Delivery Contents

Accessories

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

Push-button														
LED - Green														
LED - Yellow				П	Л									
Time (sec)						1			I					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13

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 pushbutton is released during the following 3 seconds

Push-button														
LED - Green														
LED - Yellow					П	П								
Time (sec)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13

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 pushbutton is released during the following 3 seconds

Push-button														
LED - Green														
LED - Yellow														
Time (sec)									1					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13

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 Proximity Sensors category:

Click to view products by Carlo Gavazzi manufacturer:

Other Similar products are found below :

01.001.5653.1 70.340.1028.0 70.360.2428.0 70.364.4828.0 70.810.1053.0 72.360.1628.0 73.363.6428.0 8027AL20NL2CPXX FYCC8E1-2 9221350022 922AA2W-A9P-L PLS2 GL-12F-C2.5X10(LOT3) 972AB2XM-A3N-L 972AB3XM-A3P-L PS3251 980659-1 QT-12 E2E2-X5M41-M4 E2E-X14MD1-G E2E-X2D1-G E2EX2ME2N E2EX3D1SM1N E2E-X4MD1-G E2E-X5E1-5M-N E2E-X5Y2-N E2E-X7D1-M1J-T-0.3M-N E2FMX1R5D12M E2K-F10MC1 5M EH-302 EI3010TBOP EI5515NPAP MS605AU EP175-32000 BSA-08-25-08 IFRM04N35B1/L IFRM04P1513/S35L IFRM06P1703/S35L IFRM08P1501/S35L IFRM12N17G3/L IFRM12P17G3/L IFRM12P3502/L IFRM12P37G1/S14L ILFK12E9189/I02 ILFK12E9193/I02 IMM2582C OISN-013 25.161.3253.0 25.332.0653.1 25.352.0653.0