Conductive Sensors 2-point Level Controller, Cascade Coupling Type CL with Potentiometer

mens to 2µ siemens.

be added.

If more than two levels are

required more systems can

Ordering no.

CLP2FA1BM24

Supply: 24 VAC/DC

- Conductive level controller
- Adjustment sensitivity operating resistance from 250 $\!\Omega$ to 500 K $\!\Omega$
- For filling or emptying applications
- Low-voltage AC electrodes
- Easy installation with 11 pin circular plug
- Rated operational voltage: 24 VAC/DC, 115 VAC or 230 VAC
- Output 8A/250 VAC SPDT relay
- LED indication for: Output ON, Power ON
- Possibility of serial connection



Ordering Key

Type _____ DIN rail mounting ____ Inputs _____ Function _____ Adjustment _____ Outputs _____ Relay versions _____

Ordering no.

Supply: 115 VAC

CLP2FA1B115

Power supply

Type Selection

Product Description

Level control relay for con-

ductive liquids which can

control two levels of filling or

The relay features a sensitiv-

ity range from 250Ω to $500k\Omega$

corresponding to 4m sie-

Mounting

emptying.

11-p circular plug

Specifications

(11)	
200	195 to 265 VAC, 45 to 65 Hz
	98 to 132 VAC, 45 to 65 Hz
24	19.2 to 28.8 VAC/DC
	<2.0 kVAC (rms)
	4 kV (1.2/50 μs) (line/neutral)
	5 VA
	5 VA / 5 W
	< 300 mS
	250 VAC (rms) (cont./elec.)
	μ (micro gap)
AC1	8 A / 250 VAC (2500 VA)
DC1	1 A / 250 VDC (250 W)
	or 10 A / 25 VDC (250 W)
AC15	0.4 A 250 VAC
DC13	0,4 A / 30 VDC
	\geq 30 x 10 ⁶ operations
	@ 18'000 imp/h
AC1	> 250'000 operations
	Max. 5 VAC
	Max. 2 mA
	250Ω to 500KΩ
	Factory settings standard
	range "S" 100KΩ
	250Ω to 5KΩ, C_{F}^{*} = 4.7 nF
	AC15 DC13 AC1

Ranges S (Standard sensitivity) Ranges H (High sensitivity)	5KΩ to 100KΩ, C_{F}^{*} = 2.2 nF 50KΩ to 500KΩ, C_{F}^{*} = 1.0 nF
Dielectric voltage	>2.0 KVAC (rms) (contacts / electronics)
Rated impulse withstand volt.	4 kV (1.2/50 µS) (contacts / electronics) (IEC 664)
Operating frequency (f)	
Relay output	0.5 HZ
Response time	
OFF-ON (t _{on})	1 s
ON-OFF (t _{off})	1 s
Environment	
Overvoltage category	III (IEC 60664)
Degree of protection	IP 20 (IEC 60529, 60947-1)
Pollution degree	2 (IEC 60664/60664A, 60947-1)
Temperature	
Operating	-20° to +50°C (-4° to + 122°)
Storage	-50° to +85°C (-58° to +185°F)
Housing material	Noryl PPO, light grey
Weight	
AC supply	200 g
AC/DC supply	125 g
Approvals	
UL cURus	UL508
CSA	CSA-C22.2 No.247
CE marking	Yes

*C_F = maximum Cable Capacitance

Ordering no. Supply: 230 VAC

CLP2FA1B230

CLP2FA1BM24



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Mode of Operation

Connection cable

2 or 3 conductor PVC cable, normally screened. Cable length: max. 100 m. The between resistance the cores and the ground must be at least 500k. Normally, it is recommended to use a screened cable between probe and controller, e.g. where the cable is placed in parallel to the load cables (mains). The screen has to be connected to pin 7 (reference).

Cascade

If more than 2 levels are required, up to 7 amplifiers can be cascaded, as shown in the example below.

Connect pin 11 of the master controller to ground and pin 9 of the master controller to pin 8 of the next con-

troller, the slave controllers (see drawing). Pin 11 of the slave controller must be left open! Pin 9 of the first slave must be connected to pin 8 of the second. Pin 9 of the last slave should be connected to pin 8 of Master. The connections must be made by screened cable to achieve optimal operation, e.g. in cable pits or

trays where the cable is close to power cables. Connect the screen to pin 7, and be sure that the distance between two systems is max 3m. Adjust the connected system sensitivity and the systems are ready to work.

Example 1

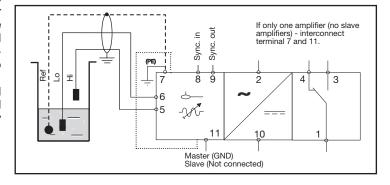
The diagram shows the level control connected as max. and min. control. The relay react to the low alternating current created when the electrodes are in contact with the liquid.

The reference (Ref) must be connected to the container

or if the container consists of a non-conductive material, to an additional electrode. (To be connected to pin 7). (In the diagram this electrode is shown by the dotted line)..

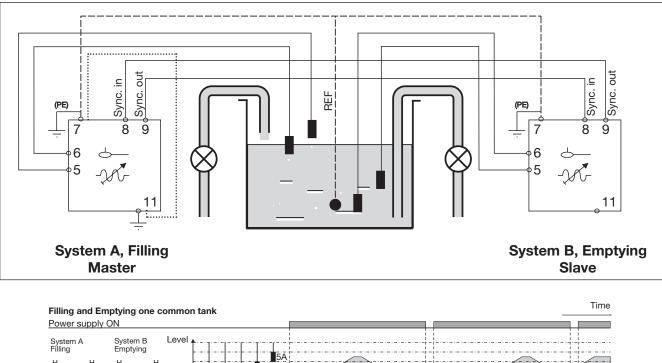
NB!

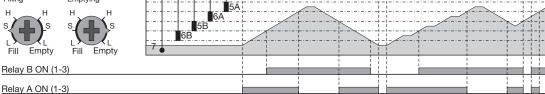
If only one level detection is required - interconnect the two inputs 5 and 6.



Operation Diagram

Filling and Emptying one common tank

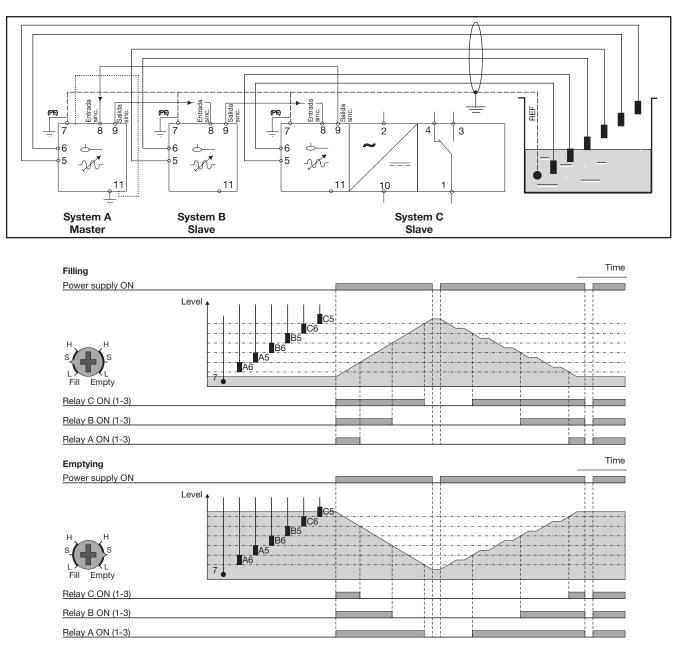




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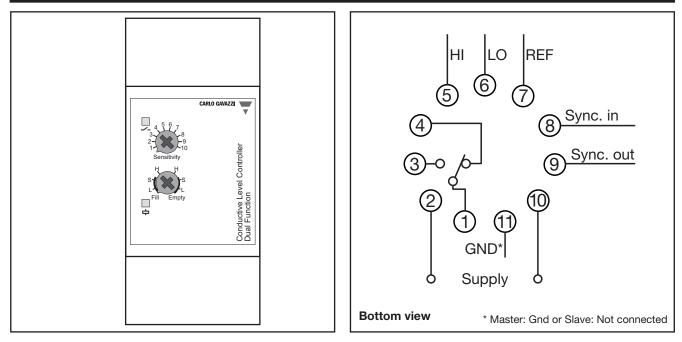
Operation Diagram

Multilevel application in one tank

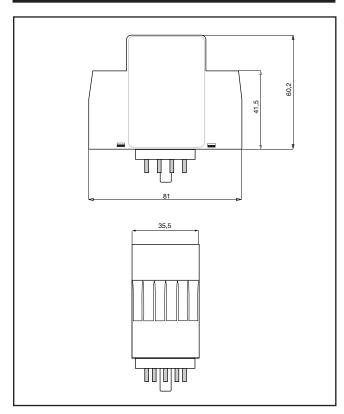




Wiring Diagram



Dimension Drawings



Accessories

• 11 pole circular socket

Holding spring

ZPD11 HF

Delivery Contents

Amplifier

- Packaging: Carton box
- Manual

X-ON Electronics

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