

Conductive Sensors 2-point level controller Type CL with potentiometer

CARLO GAVAZZI



- Conductive level controller
- Sensitivity adjustment from 5 kΩ to 150 kΩ
- For filling or emptying applications
- Low-voltage AC electrodes
- Easy installation with 11 pin circular plug
- Rated operational voltage:
24 VDC, 24 VAC, 115 VAC or 230 VAC
- Output 1 x 8A/250 VAC SPDT relay
- LED indication for: Output ON and Power ON



Product Description

μ-Processor based level controller for liquids with a wide sensitivity range (like sewage water, chemicals, salt water etc.).

Max./min. control of charging/discharging. The sensitivity is adjustable by means of the potentiometer.
1 x 8A SPDT relay output.

Ordering Key

CLP2EB1B230

Conductive level _____
Plug mounting _____
No of inputs _____
Charge/discharge _____
Basic with potentiometer _____
1 relay output _____
Relay SPDT _____
Power supply _____

Type Selection

Mounting	Relay	Ordering no. Supply: 24 VDC	Ordering no. Supply: 24 VAC	Ordering no. Supply: 115 VAC	Ordering no. Supply: 230 VAC
11-p circular plug	SPDT	CLP2EB1B724	CLP2EB1B024	CLP2EB1B115	CLP2EB1B230

Specifications

Rated operational voltage (U_B)		195 to 265 VAC, 45 to 65 Hz 98 to 132 VAC, 45 to 65 Hz 20.4 to 27.6 VAC, 45 to 65 Hz 20.4 to 27.6 VDC <2.0 kVAC (rms) 4 kV (1.2/50 μs) (line/neutral)	Rated impulse withstand volt.		4 kV (1.2/50 μs) (contacts / electronics) (IEC 664)
Pin 2 & 10	230		Operating frequency (f)		1 Hz
	115		Response time		1 s
	024		OFF-ON (t _{on})		1 s
	724		ON-OFF (t _{off})		1 s
Supply class 2			Environment		III (IEC 60664)
Rated insulation voltage			Overvoltage category		IP 20 (IEC 60529, 60947-1)
Rated impulse withstand voltage			Degree of protection		2 (IEC 60664/60664A, 60947-1)
			Pollution degree		
Rated operational power		5 VA	Temperature		
AC supply		1 W	Operating		-20° to +50°C (-4° to +122°F)
DC supply			Storage		-40° to +85°C (-40° to +185°F)
Delay on operate (t_v)		< 2 s	Housing material		NORYL PPO, light grey
Outputs		250 VAC (rms) (cont./elec.)	Screw type		M3
Relay Rating (AgCdO)		μ (micro gap)	Tightening torque min/max		0.4Nm/0.8Nm
Resistive loads	AC1	8 A / 250 VAC (2500 VA)	Weight		
	DC1	1 A / 250 VDC (250 W) or 10 A / 25 VDC (250 W)	AC supply		180 g
Small induc. Loads	AC15	0,4 A / 250 VAC	DC supply		70 g
	DC13	0,4 A / 30 VDC	Approvals		
Mechanical life (typical)		≥ 30 x 10 ⁶ operations	UL		UL508, CSA C22.2
		@ 18'000 imp/h	CSA		CSA C22.2
Electrical life (typical)	AC1	> 250'000 operations	CE marking		Yes
Level probe supply		Max. 5 VAC			
Level probe current		Max. 2 mA			
Sensitivity		5 kΩ to 150 kΩ, C _F * = 2.2 nF			
Dielectric voltage		>2.0 KVAC (rms) (contacts / electronics)			

*C_F = maximum Cable Capacitance

Connection cable

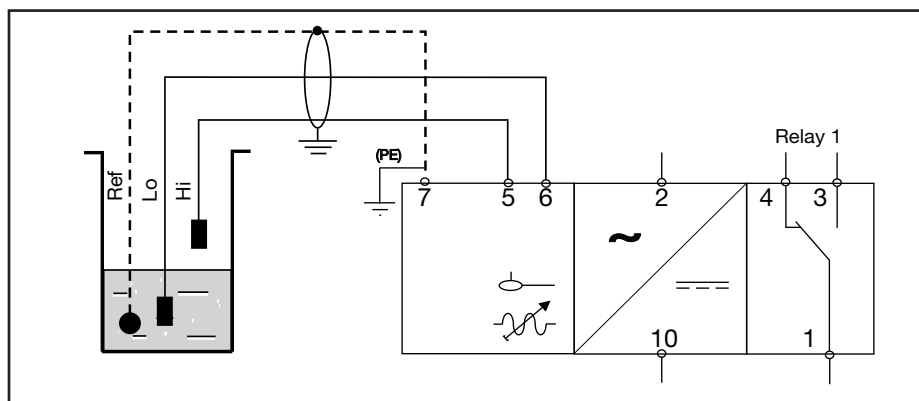
Example 1

The diagram shows the level control connected as max. and min. control. The relays react to the low alternating

The reference (Ref) must be connected to the container or if the container consists

(In the diagram this electrode is shown by the dotted line).

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



Filling

Power supply ON



Relay ON (1-3)

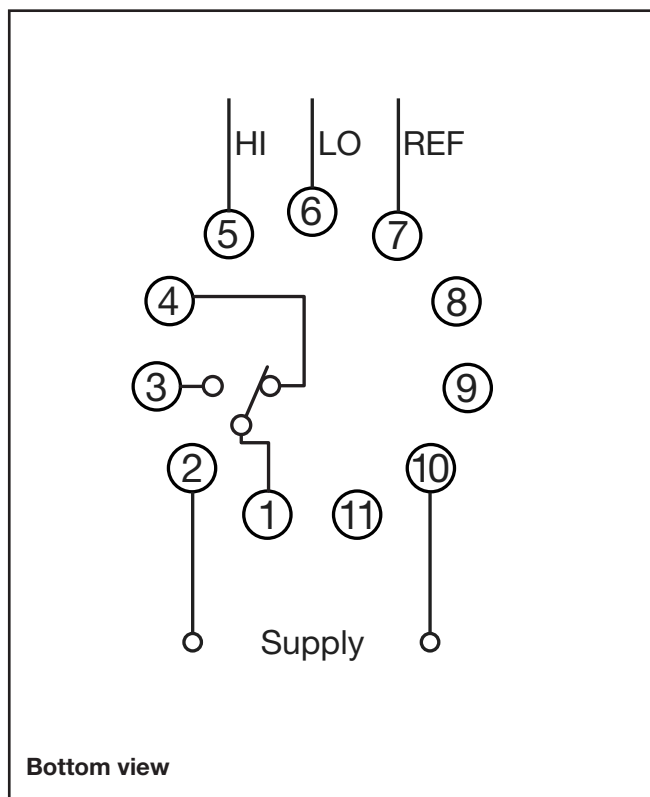
Emptying

Power supply ON



Relay ON (1-3)

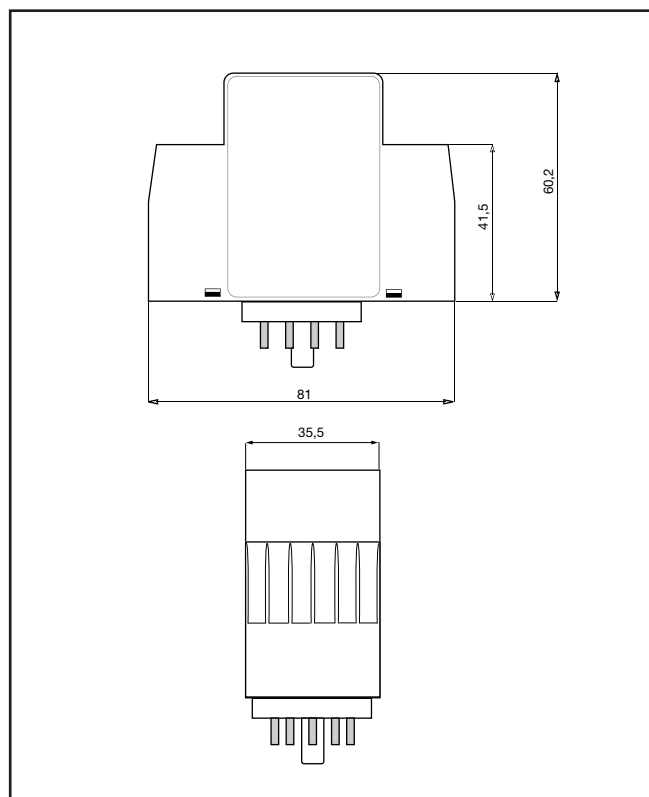
Wiring Diagram



Accessories

- 11 pole circular socket ZPD11
- Retaining spring HF

Dimension Drawings



Delivery Contents

- Amplifier
- Packaging: Carton box
- Manual

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Carlo Gavazzi:](#)

[CLP2EB1B724](#) [CLP2EB1B230](#) [CLP2EB1B024](#) [CLP2EB1B115](#)