C2Ai
Instrumentation et régulation des fluides

Conductive level-sensor

REF. SLC

GENERAL CHARACTERISTICS

The level probes SLC series have the built-in management electronics and do not require auxiliary circuits to control alarms and / or actuators.
The probes, being of a static type, without moving parts, allow an extremely precise control of the level of liquid.
The system is based on measurement of the conductivity of the liquid to be controlled and works with low potential and with alternating currents, in order to avoid the incrustation of the electrodes and / or perforation of the tank normally caused by the use of direct currents, which cause a galvanic action on materials.
The contact of the electrode with the liquid under control determines the actuation of a relay inside the control unit.

- AISI-316 Stainless steel electrodes
- Built-in electronics
- Relay output

SLC .. 10

SLC .. 50

TECHNICAL DATA Tab.1

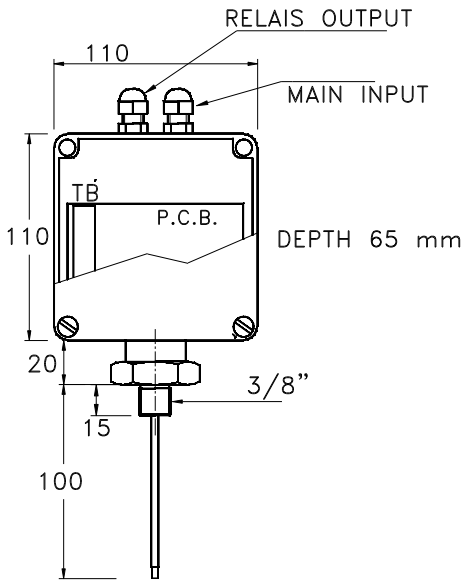
Description	Features		Code	Options	Code
Power supply	24 / 230 Vac ±10% 50/60 Hz		**24-230V**	110 Vac	**110V**
Power consumption	5 VA		-	-	-
Power supply to probes	22 Vac				
Output relay	SPDT 250Vac 6A				
Sensitivity	10 –60 µS	Factory set 20 µS	**10-60MS**	1-10 µS	**1-10MS**
Sensitivity adjustment	Internal trimmer		-		
Operating temperature	-20 ÷ +50 °C				
Max. pressure	6 bar				
Housing	ABS 110 x 110 x 65 mm	SLC—10			
	ABS 160 x 118 x 75 mm	SLC—50			
Degree of protection	IP 65	SLC—10	**IP65**		
	IP 56	SLC—50	**IP56**		
Mounting	On board		-		
Electrical connection	Internal terminal board				
Cables input	PG7				

ELECTRA SLC--10

WIRING

Terminal			
1	Ground		
3	Electrode		
5	Output relay	N.O.	
6		Common	
7		N.C.	
8	Power supply	230	Vac
9		24	
10		0	
	Option		
8	Power supply	110	Vac
10		0	

DIMENSIONS - mm.



MATERIALS Tab.2

Electrodes		Code	Options	Code
N. 1 x L 100 mm	AISI 316	**1x0100**	Length L	**. . . .**
Coating	Polyolefin	**VL**	Kynar	**K**

Process connection		Code	Options	Code
Dimension	3/8"	**10**	1/2"	**15**
Male thread	UNI 228/1	**G**	UNI 7/1	**C**
Material	Brass	**O**	AISI-316	**S**
			Polypropylene	**P**

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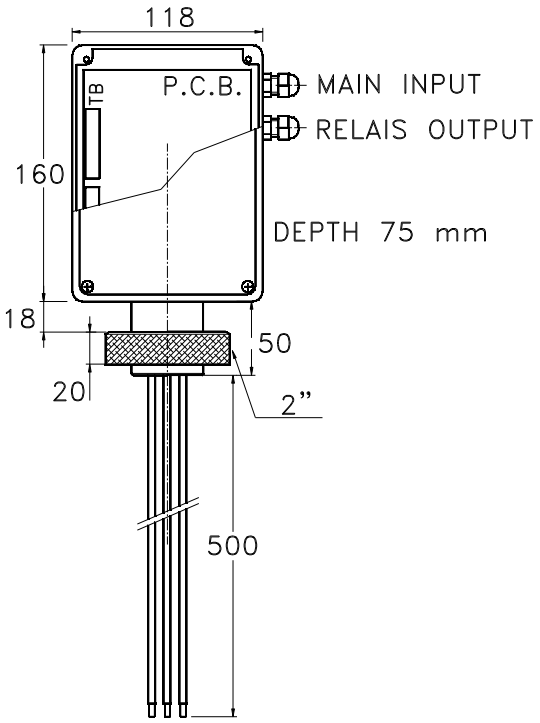
ELECTRA SLC--50

WIRING

Terminal			
2	Minimum level electrode		
3	Maximum level electrode		
5	Output relay Auto fill-up section	N.O.	
6		Common	
7		N.C.	
11	Ground electrode		
13	Alarm electrode (min o max)		
15	Output relay Alarm section	N.O.	
16		Common	
17		N.C.	
18	Power supply	230	Vac
19		24	
20		0	
	Option		
18	Power supply	110	Vac
20		0	

DIMENSIONS - mm.



MATERIALS Tab.3

Electrodes		Code	Options	Code
N. 4 x L 500 mm	AISI 316	**4x0500**	Length L	**. . . .**
Coating	Polyolefin	**VL**	Kynar	**K**

Process connection		Code	Options	Code
Dimension	2”	**50**	-	-
Female thread	UNI 228/1	**G**	-	-
Material	Polypropylene	**P**	Brass	**O**
			AISI-316	**S**

CONTROL AND ADJUSTMENT

• ELECTRA SLC-10

Control.
Open the case, remove the leads from the terminals of the electrodes, terminals 1 and 3.
Short circuit the terminals 1 and 3 of the terminal board, in these conditions, the relay must switch on and led has to light.

Sensitivity adjustment.
The unit is supplied with a factory setting of 20 µS.
Install the control unit on the tank you have to control the level (The fitting acts as a ground electrode).
Fill-up the tank to place the electrode in the liquid to be tested, turn the trimmer on the PCB to obtain the switching of the relay.

• ELECTRA SLC-50

Control.
Open the case, remove the leads from the terminals of the electrodes (terminals 2 – 3 – 11 - 13).
Short circuit terminals 11 and 13 of the terminal board, in these conditions, the red led has to light and the corresponding relay must switch on.
Short circuit terminals 3 and 11 of the terminal board, in these conditions, the green led has to light and the corresponding relay must switch on.

Sensitivity adjustment.
The unit is supplied with a factory setting of 20 µS.
Submerge the electrodes in the liquid to be tested, turn the trimmer on the printed circuit board until the red led light-on and the corresponding relay switch-on.
The calibration of the sensitivity for the alarm section also applies to the auto-fill section.

NOMENCLATURE

SLC	10GO	10-60MS	1x0100	VL	IP65	24-230V		
•								Name, type
	•						Tab.2-3	Process connection, dimension, thread, material
		•					Tab.1	Sensitivity of the system
			•				Tab.2-3	Number and electrodes length (mm)
				•			Tab.2-3	Electrodes coating
					•		Tab.1	Degree of protection
						•	Tab.1	Power supply

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