

CVI

Technical data

Power supply:	24, 115, 230 Vac
Power consumption:	5 VA max.
Input:	4÷20mA
Input resistance:	10ohm.
Analog Outputs:	0÷10V on min 3Kohm 4÷20mA on max 500ohm
Digital outputs:	4 change-over contacts
Hysteresis:	1% o 2 % selectable
Contact rating:	3A 250Vca
Display:	green led - supply red led - threshold
Storage temperature:	-30÷+80 °C
Working temperature:	-10÷+50 °C
Grado di protezione:	IP00
Version:	DIN rail standard mounting
Weight:	0,3 Kg
Dimensions:	76,7x205 deep 60



The power supply and the presence of the thresholds are to specify in the ordination code according to the scheme that list:

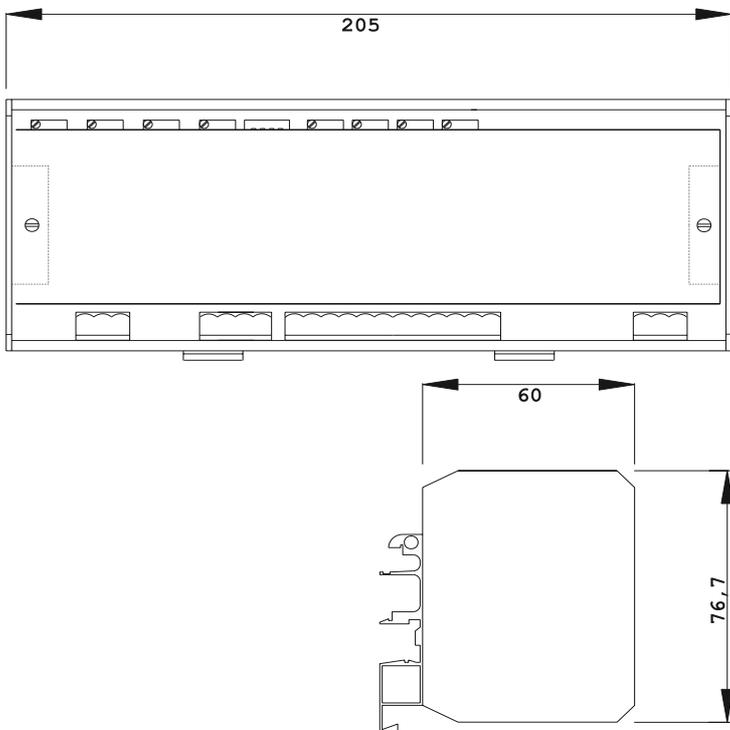


fig.1

825B075A

CVI

Capacitive level measuring

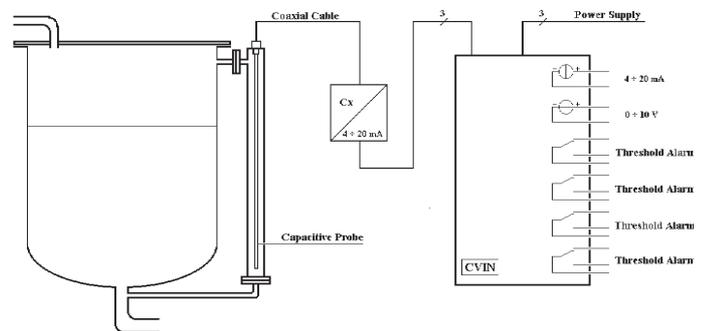
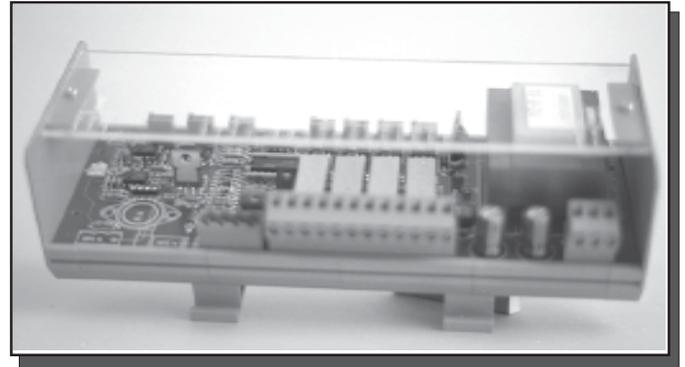


fig.2

CVI General

The CVI unit has internally a 24Vdc power supply for level sensor connected with it.
The 4 SPDT relays on board have the their independent calibration trimmer.
The CVI analog output signal can be calibrated in a different way regards the analog input signal .

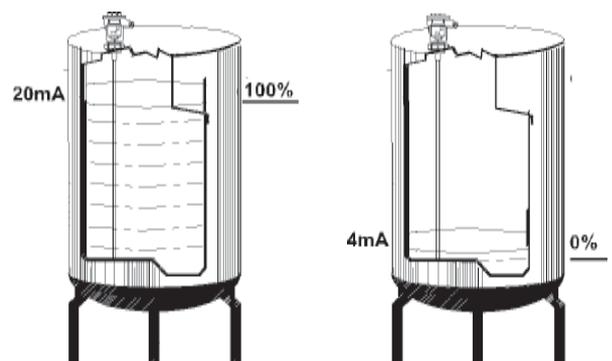


fig.3

CVI Electrical connections

The diagram of the electric connections has shown in figure 4.

Minimum section of the cables: 0.5 mm²

Maximum length of the cables: 250 m

The cables of connection must have separate run from the cables of power.

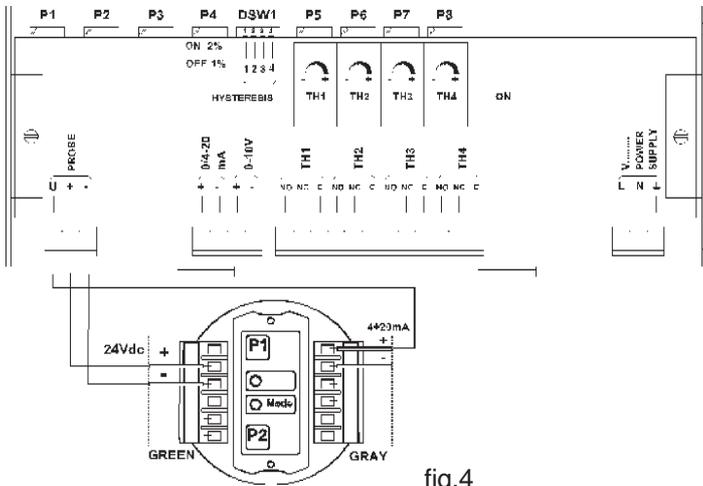


fig.4

CVI Setting thresholds

Thresholds calibration.

The calibration of the thresholds is performed in the following way:

- set the liquid level in the tank to the alarm level;
- starting from minimum, turn slowly the trimmer of the threshold to be calibrate until to get the desexcitation of the relay; at this point turn the trimmer toward the minimum until to get the excitation of the relay. The trimmer must be positioned between the two points that determine the relay release.

Hysteresis calibration.

The hysteresis threshold could be equal to 1% or 2%. The standard setting is 2%; if you want a more precise threshold the hysteresis could be led to 1% by setting the deep-switch on the OFF position.

CVI Setting analog output

The device is furnished already set for the 4-20mA input on application of the customer. If becomes necessary a setting diverged from the standard one CVI could be set directly from the customer. Here the procedure of setting is illustrated:

0-10V / 4-20mA calibration.

This is the standard calibration. If your measure range is equal to that specified in the ordering code then the device don't require any calibration. If you want a different measure range you must act as follows:

- measure the output voltage with a good voltmeter;
- set the liquid level in the tank to 0% and, acting on the trimmer P0, set the output voltage to 0V. Automatically the output current is set to 4mA;
- set the liquid level in the tank to 100% and, acting on the trimmer P10, set the output voltage to 10V. Automatically the output current is set to 20mA.

Particular calibrations.

If you want a different calibration for the output current you must proceed as follows:

- measure the output voltage with a good voltmeter and the output current with a good amperometer;
- set the liquid level in the tank to 0%. Acting on the trimmer P0 set the output voltage to 0V. Acting on the trimmer P0/4 set the output current to the minimum value (for example 0mA);
- set the liquid level in the tank to 100%. Acting on the trimmer P10 set the output voltage to 10V. Acting on the trimmer P20 set the output current to the maximum value (for example 20mA).

Note

The current calibration depends on the voltage calibration so you must first regulate the voltage trimmers and then the current trimmers. If you don't want a wrong calibration you must follow the instructions scrupulously.

CVI Warranty

The warranty expires when damages they have provoked from the use not quite or from not correct installations. The warranty is valid for a period of 12 months from the acquisition behind presentation of the manual present of installation. All the reparations in warranty will have realised beside our establishment in Rodano (MI), the costs of dismounting and reinstalling of the device and the costs of transport will be paid by the customer.

CVI Factory test certificate

In conformity to the production and check procedures I certify the equipment:

CVI serial n.
satisfy technical characteristics as write in TECHNICAL DATA
and it is conform to the internal procedures

Quality control Manager

.....
Date of manufacture:
.....



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