VENITEM® GROUP security system

MCX board

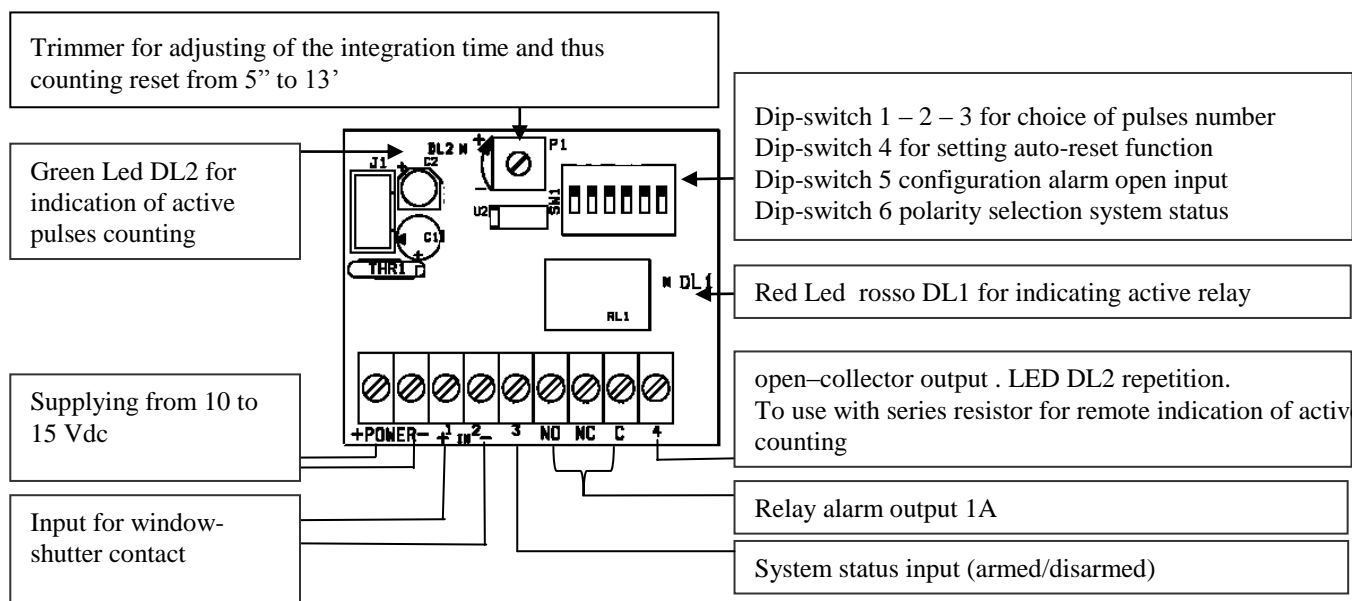**Electronic board for window-shutter, inertial and vibration contacts.**

- *Technical Features:* The MCX board elaborates the very short pulses coming from vibration, inertial or window-shutters sensors and gives an alarm signal through a relay exchange. Both pulses number and the time for which they are counted can be set. The LED DL1 shows the active relay and the LED DL2 shows the pulses counting started and the alarm memory. The standard pulse of the above mentioned contacts has a duration which varies from 1 to 5 milliseconds.

- *Connection:* First proceed to the dip-switch setting according to the required configuration then connect the 12V supplying to the terminals + POWER – and connect the window-shutter contact to terminals + IN – connect the terminals of the relay Exchange to an input of the alarm control panel or other signalling device.

Trimmer for adjusting of the integration time and thus counting reset from 5" to 13'

Green Led DL2 for indication of active pulses counting

Dip-switch 1 – 2 – 3 for choice of pulses number
Dip-switch 4 for setting auto-reset function
Dip-switch 5 configuration alarm open input
Dip-switch 6 polarity selection system status

Red Led rosso DL1 for indicating active relay

Supplying from 10 to 15 Vdc

open–collector output . LED DL2 repetition. To use with series resistor for remote indication of activ counting

Input for window-shutter contact

Relay alarm output 1A

System status input (armed/disarmed)

- *pulses selection:*

DIP Switch	Pulses number triggering off alarm (during integration time)							
	1	2	3	4	5	6	8	12
DIP 1	ON	OFF	ON	OFF	ON	OFF	ON	OFF (by default)
DIP 2	ON	ON	OFF	OFF	ON	ON	OFF	OFF (by default)
DIP 3	ON	ON	ON	ON	OFF	OFF	OFF	OFF (by default)

- *Selector of integration time with automatic pulses-counting reset:* integration time can be set by trimmer P1 from 5" to 13', then counting automatically goes to zero if no pulse is detected .

DIP 4	
ON (by default)	Automatic pulses-counting reset, active
OFF *	Automatic pulses-counting reset , excluded . The pulses-counting is reset only at the activation of the control panel input .

*PAY ATTENTION: in case the auto-reset function is de-activated, check that control panel is correctly connected to input 3 for reset of pulses-counting.

- *Input opening control:* with dip-switch 5 it is possible to determine if the MCX board shows or not the alarm even when the input remains opened for over 0,5 seconds. This is useful in case a magnetic contact is connected in series to the window-shutter sensor.

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DIP 5	Function
ON	Alarm on input opening > 0,5 sec and alarm on pulses counting
OFF (by default)	Alarm only on pulses counting

In case of alarm for input opening, relays remains excited until the input is closed.

- *System status input:* dip-switch 6 allows configuration of input polarity 3 for the system status, the system is considered as active according to the input tension.

DIP 6	INGRESSO 3	STATO IMPIANTO
ON (by default)	+12V or not connected	ACTIVE
ON (by default)	0V	NOT ACTIVE
OFF	+12V or not conneted	NOT ACTIVE
OFF	0V	ACTIVE

- *Alarm memory:* an alarm event will activate the relay Exchange for 2 seconds and will be kept in memory. The memorization is shown by LED DL2 when the input "system status" is not active.

- *Led DL2:* Led DL2 flashes when the circuit detects the entry pulses but the number of necessary pulses for alarm has not been reached yet. Once expired the integration time the LED stops flashing. When an alarm occurs, after de-activation of the input "system status", the Led DL2 lights up in fix way in order to show the occurred alarm; at the following system arming, the alarm memory and the pulses counting goes to zero.

- *Open-collector output:* the open-collector output (terminal 4) repeats the status of the LD2 Led. Usable to connect a remote LED, with concerned resistor (not supplied) or an entry of the control panel as pre-alarm.

- *Technical features of the electronic board:*

Supplying tension	from 10Vdc to 15Vdc
Consumption	7mA (rest), 35mA (active relay)
Available outputs	1 relay-exchange output max 1A
	1 open-collector output – see chapter "open-collector output".
Size	D 14 mm x H 45 mm x L55 mm
Weight	28g

Warranty: all Venitem products are granted for 24 months. In order to improve design and quality of the products Venitem reserve the right to modify the product without previous warning. All faulty pieces must be returned to supplier.

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