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CONNECTIONS

The connections of the control board are made through terminal blocks M1 (bus1), M2 (inputs and outputs) and M3 (DEA NET), through CN1 connector (relay expansion boards), USB port (PC Link) and Ethernet port.



BE CONNECTED TO A DEDICATED ZONE OF THE ALARM CONTROL PANEL.

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PC (P1 PORT) AND WANS/LANS (P2 PORT)

- The controller is equipped with the following communication ports:
 - P1 port (USB type B) to be used to connect the PC and perform service activities via service software;
 - P2 port (ethernet) which allows the connection of FUSION P2P system over LAN/WAN through TCP/IP protocols.
- Through P2 port (ethernet), it is possible to:
 - 1. integrate with graphical map management systems;
 - 2. communicate with third-party VMSs (plugin);
 - 3. integrate, through SW-DM-DLL dynamic library, all the signals coming from third-party software;
 - 4. perform service activities using the service software supplied with the control board.

CONNECTION TO RELAY EXPANSION BOARDS (CN1 CONNECTOR)

The connection to BR-XS-RE16L expansion boards occurs via 14-pin flat cable which connects CN1 port (I/O EXPANSION) of the control board to the IN-PUT port of the relay expansion board. The additional expansion boards must be cascade connected to the already present relay expansion, keeping the OUTPUT-INPUT correspondance.



Each control board can manage up to 6 relay expansion boards for a total of 96 configurable relays. The distance between the relay outputs of the expansion boards and the inputs of the alarm control panel must not be more than 3 metres.

CONNECTION TO DEA NET BUS (M3 TERMINAL BLOCK)

The connection over DEA NET occurs by means of the M3 terminal block as shown in the picture.



LEDS

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Below you can find a table with the description of each LED present on the control board:

LED	SIGNAL	COLOUR
Power fail	 ON: normal functioning of the board OFF: low supply voltage (less than 10,8 V) or service in progress (software connection ON) or board anomaly 	GREEN
1	GENERAL ALARM RELAY ON	RED
2	GENERAL TAMPER RELAY ON	RED
3	SENSOR/PERIPHERALS GENERAL FAIL/ SELF-TEST FAIL RELAY ON	RED
4	SENSOR BUS LINK LOSS RELAY ON	RED

LED	SIGNAL	COLOUR
5	CONFIGURABLE RELAY 1 ON	RED
6	CONFIGURABLE RELAY 2 ON	RED
7	CONFIGURABLE RELAY 3 ON	RED
8	CONFIGURABLE RELAY 4 ON	RED
9	CONFIGURABLE RELAY 5 ON	RED
10	CONFIGURABLE RELAY 6 ON	RED
11	CONFIGURABLE RELAY 7 ON	RED
12	CONFIGURABLE RELAY 8 ON	RED
Activity	REGULAR BOARD ACTIVITY (Normally blinking)	GREEN

FUSION P2PLITE



Solution

FUSION P2PLITE

SECURITY, FENCE-MOUNTED DUAL-TECH INTRUSION DETECTION SYSTEM

SENSORS AND/OR RELAY BOARDS ACQUISITION

After installing the sensors, connecting the sensor-strings and the relay expansion boards (if any) to the controller, it is necessary to configure the system. The service software provides an Auto Setting button which allows, through a wizard, to configure the whole system in terms of assignment of the sensors to the lines and of configuration of the relay outputs.

- After launching the service software and entering the configuration page, start the Auto Setting procedure, through which you can:
- acquire the sensors and possible input modules (univocally identified by serial number) connected to the bus;
- sort sensors and input modules on a physical basis (sensor N. 1 is the sensor closer to the controller);
- · assign the acquired sensors to logical lines following the selected procedure (see User Software Manual);
- detect the relay expansion boards (if any) connected to the Controller;
- assign logical lines to available relays to have (if the relays are sufficient) an alarm relay and a tamper relay for each logical line; it is also possible to select several modes to assign the relays.

Once the Auto Setting procedure is completed, all the sensors and the input modules have been assigned to logical lines and all the relays have been configured. Depending on specific needs, it is also possible to customize the configuration of the lines and/or the relays.



CALIBRATION

MEMS DEVICE Once the lines /relays configuration phase has been completed, you must calibrate the sensor-strings. The quickest way is to click the Action command from the drop-down menu and select All lines calibration



THE CALIBRATION MUST BE PERFORMED ON ALL THE LINES CONFIGURED.

STRUCTURE TYPE SELECTION

Before calibration, it is necessary to select, from drop-down menu, the type of structure to be protected; 7 presets are available for each type of structure ...

SENSITIVITY AND SECURITY LEVELS

The detection capability of the sensor can be programmed using two parameters:

- Sensitivity level, which acts on the input signal gain. It is possible to vary the trimmer from 0 (min) to 100 (max).
- Security level, which acts on the signal processing parameters of the sensor, affecting readiness and receptivity with which the system reacts to external events (weak impacts, gross impacts, continuous vibrations and heavy attacks). Three different settings are available:
- HIGH: Maximum detection reactivity;

- MEDIUM (default): Medium detection reactivity. This is the default setting and, under normal conditions, provides the best ratio between detection reactivity and environmental disurbances immunity:

- LOW: minimum detection reactivity. Indicated in case of harsh environmental disturbances which require a very high immunity while maintaining a good detection readiness.

N.B.

FOR FURTHER INFORMATION ABOUT THE SERVICE SOFTWARE, PLEASE SEE THE RELATED SOFTWARE MANUAL.

SECURITY Maglia Sciolta 2 Elettrosaldata Semirigido Rigido Concertina Muro



N.B.

IF USB PORT IS USED, CONNECT THE CABLE ONLY AFTER POWERING THE BOARD ON.

THE BOARD MUST BE INSTALLED INSIDE A CASE AGAINST OPENING. THE INSTALLATION OF THE BOARD IN EXTERNAL ENVIRONMENT IS POSSIBLE ONLY INSIDE WATER-PROOF CABINETS. IF TEMPERATURE AND HUMIDITY ARE OUT OF RANGE, IT IS NECESSARY TO INSTALL AN AIR-CONDITIONING UNIT INSIDE THE BOX. DEA SECURITY SUGGESTS PERIODICALLY CHECKING ALL THE EQUIPMENT TO ENSURE MAXIMUM EFFICIENCY OVER TIME.



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