

# MMX-10M

## DESCRIPTION

The MMX-10M multi-module can operate with all the NOTIFIER analog control panels and on board hold 10 MMX-1 monitor modules.

- The input of each module, suitable to point out the closing of a normally open or closed contact, supports both 2 wires open line and 4 wires loop.
- The open line connection requires a 47 K 5% ¼ W end of line resistor.
- Optionally, a resistor 33 K 5 % ¼ W can be installed to verify short circuit connected to the alarm contact (this configuration complies EN54.2).
- The 4 wires loop configuration makes it possible to detect an alarm condition even if there is a cut in the loop.
- The MMX-10M includes the following items:
  - Removable terminal block;
  - DIP-SWITCH (for the module address selection);
  - DIP-SWITCH (for the single modules masking);
  - SMD LEDs (one for each module);
  - Auxiliary output on 14 pin flat cable connector to drive external LEDs with no resistor. The LEDs are activated by the control panel.

## OPERATION

### Address selection

This module uses 10 consecutive addresses of the 99 available in each loop. The address of the first module of the board, which can be selected through the SW-2 dip-switch, corresponds to the figure of “tens” of the complete address (01-99) sent by the control panel, while the “units” (0-9) correspond respectively to the single modules. Since the control panel does not poll the “00” module, only 9 modules (B-M) will be available if the “0” address board is programmed.

### Single module masking

The MMX-10M module is supplied with all modules unmasked. To mask a single module, the relevant DIP on SW1 DIP-SWITCH must be settled to the OFF position. This operation allows to use the address of the masked module for other devices.

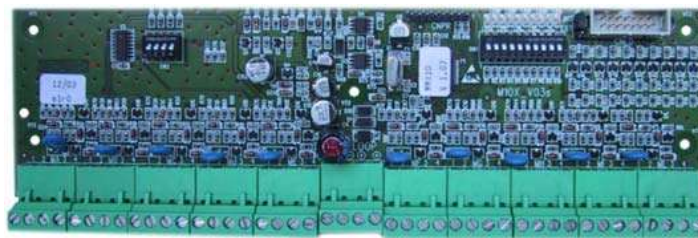
### Connection to the control panel

The 2-wires loop coming from the control panel must be connected to the terminal block “LOOP” (featuring 4 terminals).

The 1-2 and 3-4 terminals are linked together for an easier connection to other devices.

### Control panel programming

Program each board modules as if it were a single MMX-1 modules.



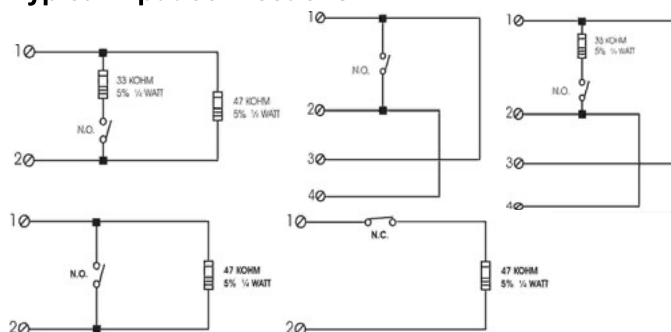
## TECHNICAL FEATURES

- The MMX-10M dimensions are suitable for a standard 19" rack 6 U.S. high.
- Dimensions: H = 233 mm, L = 70 mm, terminal block included.
- Mounting holes distance: 218 mm x 37.5 mm.
- Power supply: remote powered from the control panel loop.
- Working temperature range: 0 ÷ 49 °C.
- Relative humidity: 0 ÷ 93 % (without condense).
- Loop current:

CONDITION		Current
Alarm	LED	
No alarm	Blink	2,7 mA
All in alarm	All OFF	4 mA
All in alarm	All ON	51 mA

**N.B.** The current charge does not change even if some modules are masked.

### Typical input connections:



### Dimensions and mounting holes:

