SensoIRIS MIO22M
Input-Output Module

EN54-18/ 17

Description

SensoIRIS MIO22M is an addressable input-output module. The module monitors 2 analogue input signals and controls 2 relay outputs. The outputs can be set to be a monitored or a non-monitored via jumpers on the module's PCB.

The active state of the monitored outputs can be programmed for operation in Normal or Inverted Mode via the panel programming menus.

SensoIRIS MIO22M is powered on from the fire panel and can be controlled via the communication protocol. When an output is set as monitored, it must be powered on from an external power supply unit (see the connection diagrams).

The module has a built-in isolator module which when used allows continuous operation of the loop in case of module's failure and without need of using additional isolator modules.

The module is mounted is a separate small plastic box suitable for wall mounting, with transparent cover for visual inspection.
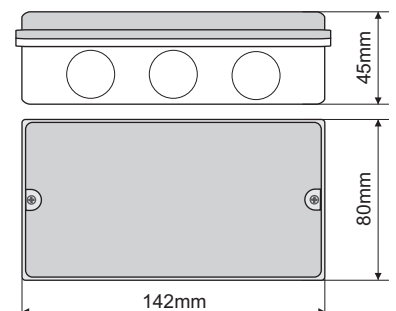
Technical and Environmental Specifications

Operating voltage . . . . 16 ÷ 32VDC
Outputs, electrical characteristics (max) . . . . . DC 30V/2A; AC 125V/0.5A
Consumption - two non-monitored outputs:
   - Nom. current consumption . . . . < 0.87mA@27VDC
   - Current consumption with 1 LED on 3.9mA
   - Current consumption with 2 LEDs on 7.2mA
Consumption - two monitored outputs:
   - Nom. current consumption . . . . < 1.03mA@27VDC
   - Current consumption with 1 LED on 4.15mA
   - Current consumption with 2 LEDs on 7.2mA
Wire gauge for terminals . . . . 0.4mm^2 - 2.0mm^2
Operating temperature. . . . . -10℃ to +60℃
Relative humidity resistance . . . . (93 ± 3)% @ 40℃
Protection IP40
Weight . . . . ~180g
Enclosure box (Material, color, model) . . . . . . ABS, Grey
Dimensions 142x80x45mm

CE 19
1293
DoP No: 124
1293-CPR-0632

Packing Information

- **Single packing** - 1 unit SensoIRIS MIO22M, dimensions 145x84x50mm
- **Carton packing box** - 48 units SensoIRIS MIO22M, dimensions 510x320x200mm

45mm

80mm

142mm

Compatible Product Range

- **IRIS** - Addressable Fire Panel, 4 loops
- **IRIS PRO** - Addressable Fire Panel in metal box, 4 loops
- **SIMPO** - Addressable Fire Panel, 2 loops
- **SensoIRIS Programmer** - Address Programming Tool
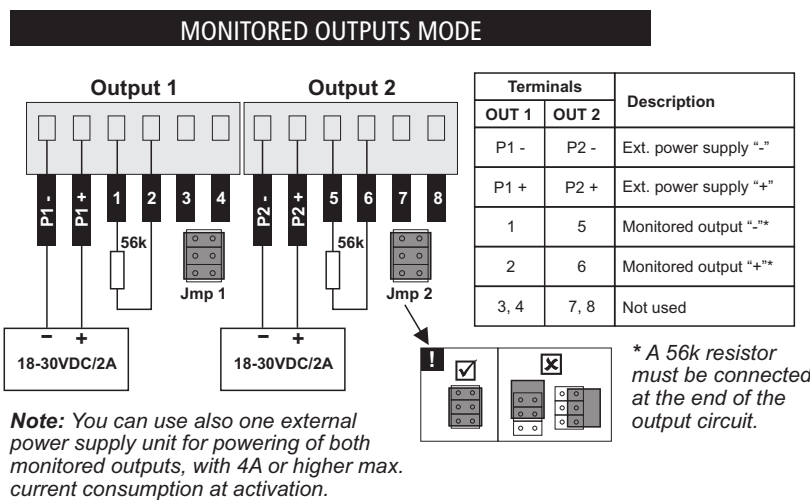
Contact Information

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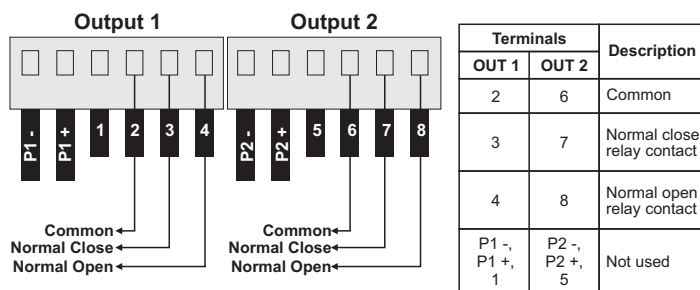
Connection Diagrams

a) Outputs connection

ATTENTION: The monitored outputs mode is set by default - at terminals Jmp1 and Jmp2 are set jumpers. Every setting or removing of the jumpers must be provided with POWERING OFF the module from the loop line and external power supply.
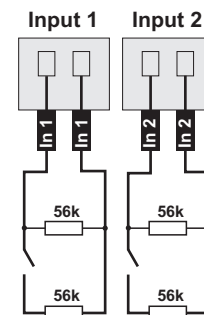
MONITORED OUTPUTS MODE

Output 1   **Output 2**

| P1 - | P1 + | 1 | 2 | 3 | 4 | P2 - | P2 + | 5 | 6 | 7 | 8 |

56k   Jmp 1   56k   Jmp 2

− +   − +
18-30VDC/2A   **18-30VDC/2A**

Terminals		Description
OUT 1	**OUT 2**	
P1 -	P2 -	Ext. power supply "-"
P1 +	P2 +	Ext. power supply "+"
1	5	Monitored output "-"*
2	6	Monitored output "+"*
3, 4	7, 8	Not used

* A 56k resistor must be connected at the end of the output circuit.

Note: You can use also one external power supply unit for powering of both monitored outputs, with 4A or higher max. current consumption at activation.

NON-MONITORED OUTPUTS MODE

ATTENTION: NO JUMPERS SET TO Jmp1 and Jmp 2 terminals.

Output 1   **Output 2**

| P1 - | P1 + | 1 | 2 | 3 | 4 | P2 - | P2 + | 5 | 6 | 7 | 8 |

Common
Normal Close
Normal Open

Common
Normal Close
Normal Open

Terminals		Description
OUT 1	**OUT 2**	
2	6	Common
3	7	Normal close relay contact
4	8	Normal open relay contact
P1 -, P1 +, 1	P2 -, P2 +, 5	Not used

b) Inputs connection

Input 1   **Input 2**

In 1   In 1   In 2   In 2

56k   56k

56k   56k

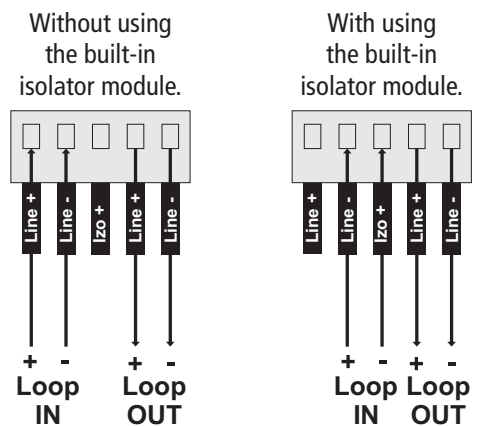**In 1** - Terminals for INPUT 1
In 2 - Terminals for INPUT 2

Use 56k balancing resistors for realizing connection of control devices to the module inputs.

c) Loop connection

Without using the built-in isolator module.

With using the built-in isolator module.

Line +   Line -   Izo +   Line +   Line -

+ -   + -
**Loop   Loop
IN   OUT**

Line +   Line -   Izo +   Line +   Line -

+ -   + -
**Loop   Loop
IN   OUT**

Line +: Positive loop line;
Line - : Negative loop line.

Contact Information