



EM110

Input module

inim



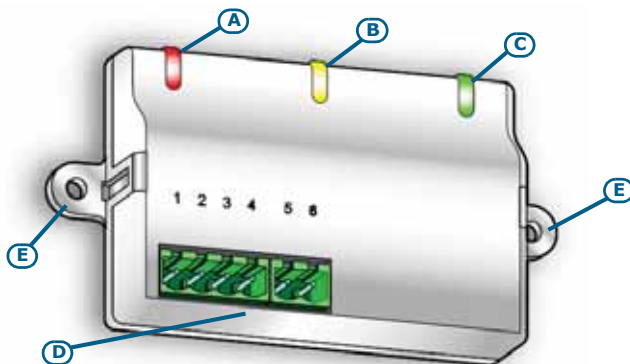
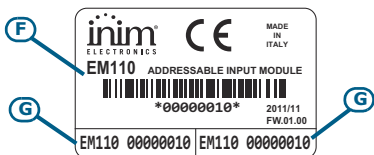
The EM110 input modules are EN54-17 Short-circuit isolators and EN54-18 - Input/Output devices compliant.

ATTENTION!

Product description

The EM110 module allows you to interface an addressable-analogue control panel with external apparatus and devices by means of its supervised inputs.

On the back of the module you will find a label showing the technical specifications and the distinctive serial number which identifies the device.

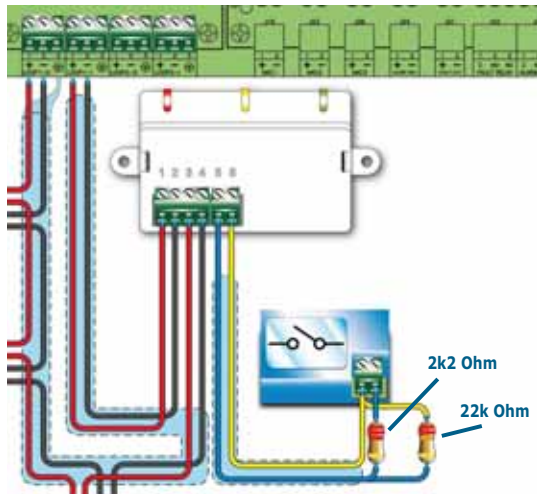


A	A LED
B	B LED
C	C LED
D	Terminals
E	Removable anchor locations
F	Technical specifications/serial-number sticker
G	Removable serial-number stickers

Terminals	Description	Note
1 Loop IN +	Terminals for the input connection with the loop.	It is not necessary to respect the input/output configuration of the terminals as the Loop IN and OUT terminals are interchangeable. However, for wiring congruence, it is advisable to follow the order indicated in this table.
2 Loop IN -		
3 Loop OUT +		
4 Loop OUT -		
5 Input +	Supervised input terminals: supervise the status of one or more contacts and the subsequent transfer of data (relative to the status of the contact) to the control panel. To be used for the connection of external devices to the control panel, such as beam smoke detectors with relay outputs or other types of devices with one or more output relays.	Resistance in standby: 22k Ohm Resistance in alarm: 2k2 Ohm
6 Input -		

LED	Colour	Function
A	Red	Alarm input
	Yellow	Fault input
B	Yellow	Short-circuit isolator on loop open
C	Green	LED manageable by the control panel

TECHNICAL SPECIFICATIONS	EM110
Power supply	19-30 Vdc
Current draw in standby status	Max 75µA @ 24V
Current draw in alarm status	20 mA @27.6V
Input balancing resistance (terminals 5 and 6)	22K Ohm
Alarm input resistance (terminals 5 and 6)	2.2K Ohm
Operating temperature	-5°C/+40°C
Humidity (without condensation)	95% RH
Height	53 mm
Width (with anchor locations)	100 mm
Width (without anchor locations)	78 mm
Depth (with terminal boards)	29 mm
Depth (without terminal boards)	19 mm
Weight	66 g



Installation

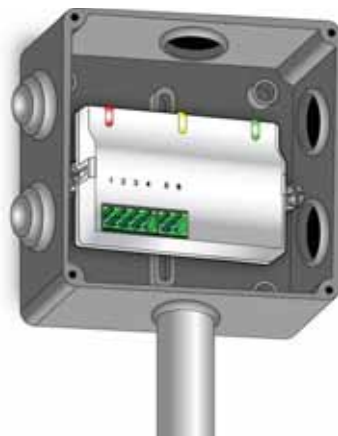
The module must be connected to the control panel via a 2 pole twisted-shielded cable. This cable carries both the power supply and the two-way digital communications data. Refer to the Installation section for the wiring diagram.

The module has a short-circuit isolator which, in the event of short-circuit between the two poles of the control panel loop cable, is capable of interrupting the negative pole and thus isolating the section involved in the short-circuit. For the isolator specification, please refer to the "ILP Specification" document.

The module should be housed inside an electrical mounting box, as per the diagram, with the following characteristics:

- Minimal internal dimensions: 100 x 60 x 40 mm
- Protection grade IP44 or higher
- Compliant with the established standards and codes relating to the Installation of electrical systems

The two removable serial number stickers should be taken off ATTENTION! the module; one should be attached to the box where the device is to be housed, the other to the installation layout.



Once all the loop devices have been properly connected, refer to the control panel installation and programming manual for instructions regarding the configuration and addressing procedures.

Testing and maintenance

The functionality of the module should be tested immediately after installation and periodically during maintenance inspections, in accordance with the established standard regulations and codes in force.

Using the EITK-DRV driver

The EITK-DRV driver allows you to change the operating parameters of the devices connected to the loop and also to obtain accurate diagnostic data. It can operate through the USB port of a computer furnished with the relative software programme, or can function autonomously by way of the battery housed inside.

For further information and details regarding use of the EITK-DRV driver, refer to the respective handbook.

Warnings and limitations

The EM110 module must be used exclusively with control panels that operate on INIM OpenLoop protocol. This product is not suitable for outdoor installation. However, if outdoor installation is necessary, ensure that the device is housed inside a suitable enclosure with the required protection grade.

INIM Electronics reserves the right to change the technical specifications of this product without prior notice.

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