



991g/02

# EU311

## Input/output micro module

inim



0832-CPD-1452

The EU311 are certified and approved in accordance with EN54-17 Short-circuit isolators and EN54-18 – Input/Output devices.

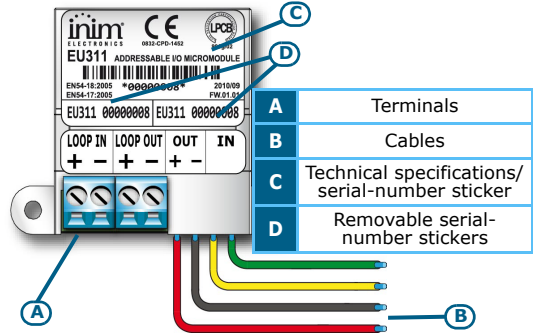
**ATTENTION!**

### Product description

The EU311 micro module allows you to interface an addressable-analogue control panel with external apparatus and devices such as call-points, beam detectors, sirens, flashers, etc. Thanks to the small dimensions, the micro module can be placed directly into the connected device (see below).

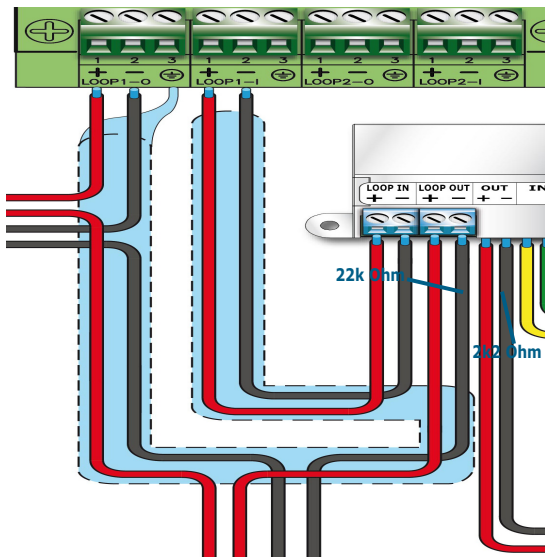
The output of the micro module can supply power to the device connected by means of the loop tension.

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



Description		Note
Terminals	Loop IN +	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.
	Loop IN -	
	Loop OUT +	
	Loop OUT -	
Cables	Red	<p>Output terminals; when activated by the control panel supply 24V tension with a maximum current draw of 20mA.</p>
	Black	
	Yellow	<p>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</p>
	Green	

TECHNICAL SPECIFICATIONS	EU311
Power supply	19-30 Vdc
Current draw in standby status	Max 80µA @ 24V
Current draw in alarm status	20 mA @27.6V
Input balancing resistance	22K Ohm
Alarm input resistance	2.2K Ohm
Output current draw	MAX 20mA
Operating temperature	-5°C / +40°C
Humidity (without condensation)	95% RH
Height (without cables)	37 mm
Width (without cables)	40 mm
Depth (without cables)	15 mm
Cables lenght	100 mm
Weight	15 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.

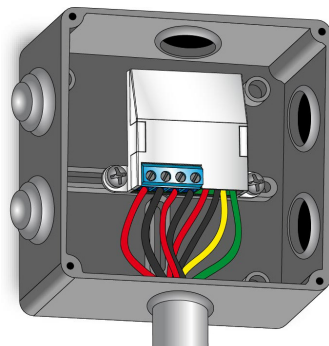
The module has a short-circuit isolator which, in the event of short-circuit between the two poles of the control panel loop cable, is capable of interrupting the negative pole and thus isolating the section involved in the short-circuit.

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

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: 80 x 80 x 40 mm
- Protection grade IP44 or higher
- Compliant with the established standards and codes relating to the Installation of electrical systems



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 EDRV1000 driver

The EDRV1000 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 EDRV1000 driver, refer to the respective handbook.

## Warnings and limitations

The EU311 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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