EN 54-18
EN 54-17

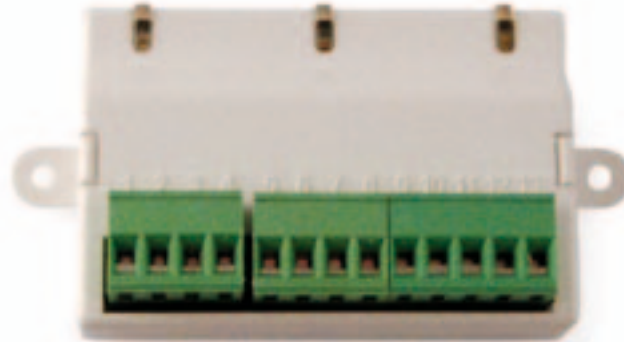# EM312SR
Input Module/Addressable Output

As a result of advanced technologies based on new-generation microprocessors, the EM312SR module from ENEA series, represents the most advanced technology that fire detection equipment can offer today.

Each device is identified by a unique factory-assigned serial number. Therefore, these devices do not require the use of an address programmer. The serial number is located on the device label and on two stickers which can be positioned on the system layout and on the mounting base.

Once the loop wiring is complete, the EDRV1000 driver or SmartLoop/SmartLight control panel, assisted by LoopMap application, will enroll all the connected devices automatically and reconstruct a map showing the wiring order of the connected peripheral devices, "T" junctions and all the physical characteristics of the Loop. The LoopMap application allows you reconstruct the exact installation layout and thus create an easy-to-use, interactive loop map which greatly simplifies and speeds up searches relating to system faults and maintenance work.

The innovative serial self-addressing function, developed by Inim's R&D professionals, allows you to add new devices to an existing system without reprogramming it. In this way, the LoopMap specifications remain unchanged and the new devices are assigned available logical addresses (in order) and correctly positioned on the interactive map.

The self-addressing function eliminates many of the problems connected with the manual addressing procedure, such as time-consuming operations on rotary/DIP switches and errors caused by duplicated or wrong addresses and similar problems. LoopMap technology not only makes the self-addressing process more reliable, it also speeds up fault searches, facilitates system expansion, simplifies changes and assures greater flexibility and lower costs.

Inim's new technology combines the advantages of manual addressing with the cutting-edge efficiency of a self-addressing process. The EM312SR module is equipped with a programmable NO/NC relay (assignable to any of the system events); a current changeover contact (usable for all types of activation commands); a voltage-free contact (usable for all types of activation commands); an independent supervised output (alarm, warning and fault) suitable for addressing contacts which refer to the fire control system.* Additionally, it provides a supervised output capable of driving one or more audible or audible/visual signalling devices. In this way, the module is suitable for control and supervision of fire doors and rollerblinds, electromagnets, alarm signalling devices, etc., and also for addressing detectors with output relays, gas detectors, linear smoke detector barriers, thermosensitive wire, etc.* The EM312SR module connects to the same line as the detectors.

The EM312SR module, as all ENEA series devices, is equipped with an isolator module and occupies a loop address.

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Technical Specifications

- Certifications: LPCB CPD EN54/pt18 -pt17 certificate N° 0832-CPD-1451.
- Self-addressing.
- LOOPMAP Technology.
- VERSA++ Technology.
- 240 Addresses.
- 1 supervised input.
- 1 supervised output.
- 1 supervised input for the activation of the devices connected to the output.
- 1 changeover relay output 1A@30Vdc.
- Built-in short-circuit isolator.
- Programmable warning threshold.
- Power supply: 19 - 30Vdc.
- Current draw during standby: 80µA.
- Current draw during alarm: 20mA.
- 3 multicolour LEDs for input/output/isolator status signalling.
- Dimensions: (W x H x D) 52.50 x 100 x 28 mm.
- Weight: 66 g.
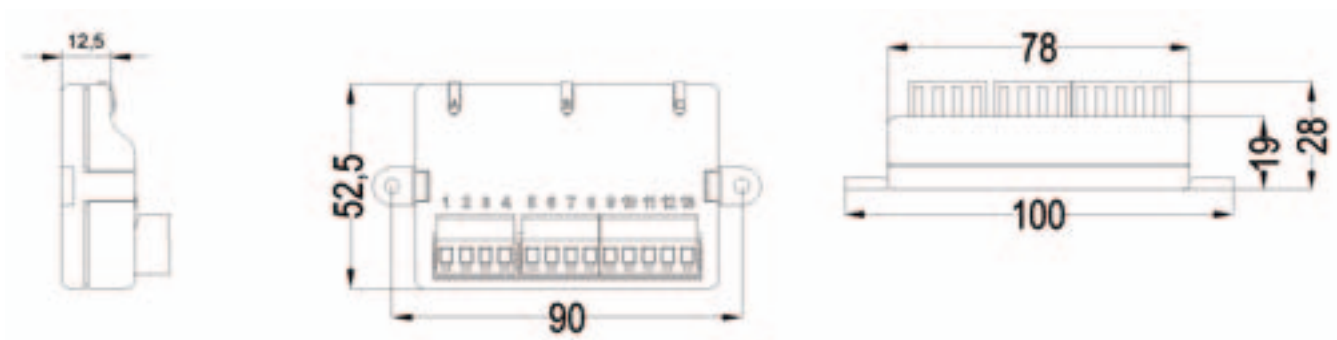
ORDER CODE

EMR312SR: Input/Output module.

REFER TO

ITD010 - EM312SR Wiring Diagram Input Generic.
ITD011 - EM312SR Wiring Diagram Output.
ITI012 - EM312SR Installation.
ITD013 - EM312SR to BDH100 Wiring diagram.
ITD014 - EM312SR to BDH100 Wiring diagram loop powered.
ITD015 - EM312SR to Micra100 Wiring diagram.
ITD016 - EM312SR to GAS ING55-5xx Relay.
ITD017 - EM312SR to GAS ING55-5xx INA55-505.

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