240V RELAY MODULE

EM201EA240

Instruction Sheet

R10264GB0

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1 240V RELAY MODULE - EM201EA240

The 240V RELAY MODULE - EM201EA240 (FFS06717043) is an output module, providing 250VAC 5A rated voltage free contacts, one normally open and one normally closed.

The output relay is a bistable device, latching in the on or off state on command from the control panel.

1.1 Addressable EM200-series I/O-modules

The EM200 series of modules are a family of microprocessor-controlled interface devices permitting the monitoring and/or control of auxiliary devices and are compatible Esmi Sense FDP and FX 3NET fire detection system.

The module is supplied in new shiny white enclosure common to the whole I/O modules family. This enclosure is equipped with integrated DIN rail brackets, designed to mount directly on to a standard 35mm ‘Top Hat’ DIN rail.

The module has a built-in short circuit protection for the communications loop; however, to increase application flexibility, the isolator can be selected/deselected.

To help technicians in the maintenance and fault-finding process, light pipes have been enlarged to increase visibility even in the most challenging space constrained application. Both the status LED and the rotary switch selection can be viewed on the two sides without having to remove the cover of the surface mounting box. The multi-colour status LED, provide diagnostic information regarding the status of each individual input/output.

For ease of installation, testing and maintenance, modules have been equipped with quick connectors. The module mounts a 4+6 terminal blocks: the green color terminal block of 4 works with 24V, while the red colour one of 6 works with 240V.

1.2 Specifications

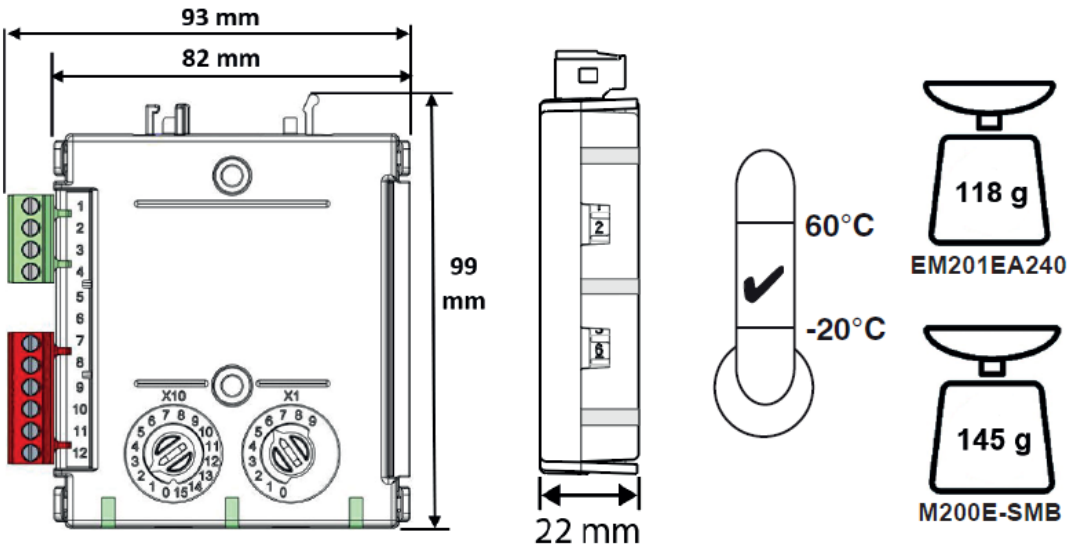
1.2.1 Electrical Specifications

Operating Voltage Range:	15 to 32VDC (Min 16.5VDC for LED operation)
LED Cutoff Voltage	16.5 VDC
Maximum Standby Current	75µA at 24VDC (no communications)
Maximum Alarm Current	5.5mA at 24VDC, one communication each 5 seconds with LED blink enabled
Relay Contact Ratings	5A at 30VDC, 5A at 250VAC resistive load
Maximum Wire Gauge	2.5 mm²

1.2.2 Environmental Specifications

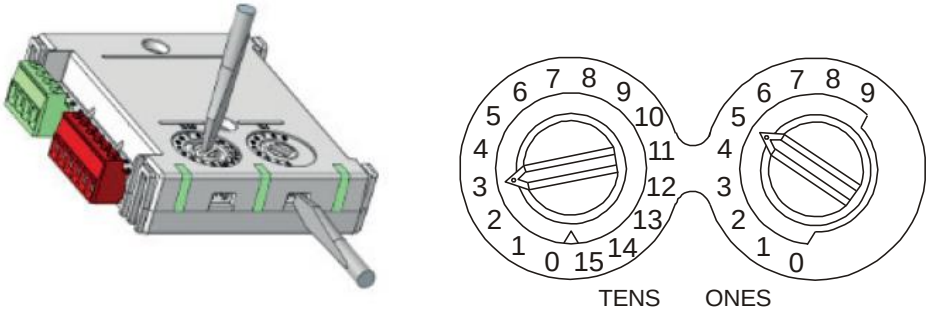
Humidity	5% to 95% Relative Humidity (non-condensing)
IP Rating	IP30 (IP44 in M200E-SMB)
Operating Temperature	-20°C to 60°C

1.3 Dimensions



1.4 Address setting

The module address is selected by means of rotary decade address switches accessed at the front of the module. A screwdriver should be used to rotate the wheels to select the desired address. (Note: The number of addresses available will be dependent on panel capability, check the panel documentation for information on this).



Rotary switches

1.5 Installation

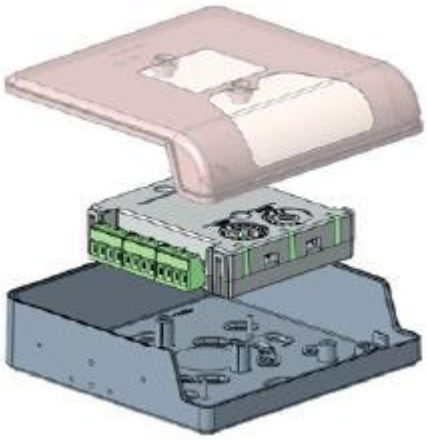
These modules must only be connected to Esmi Sense FDP and FX 3NET fire detection systems equipped with SLC loop controller.
Also compatible with Fx LC and Esa/Sesa LIB loop controllers.

EM200 series modules can be mounted in several ways (See below):

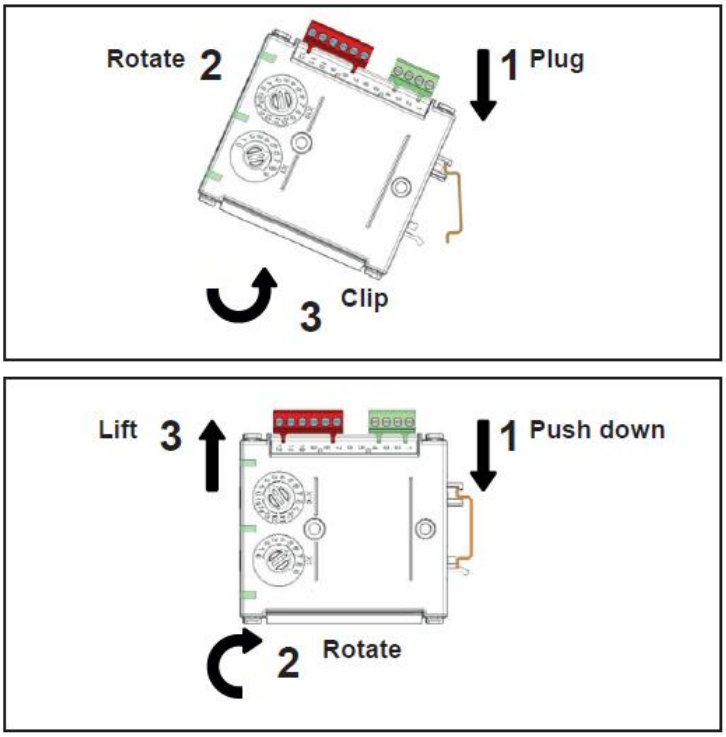
1:1 An M200E-SMB custom low profile surface-mounting box. The SMB Base is affixed to mounting surface, and then the module and cover are screwed onto the base using the two screws supplied. Box dimensions: 132 mm (H) x 137 mm (W) x 40 mm (D).

1:2 The DIN bracket on top allows mounting onto standard 35 mm x 7.5 mm "Top Hat" DIN rail inside a control panel or other suitable enclosure. Install and remove as shown in Figure 1:2. Wiring to all series EM200 modules is via plug in type terminals capable of supporting conductors up to 2.5 mm².

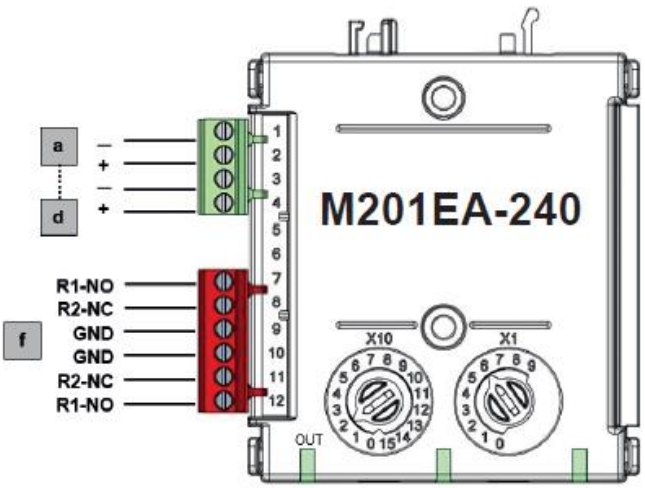
1:1 M200E-SMB

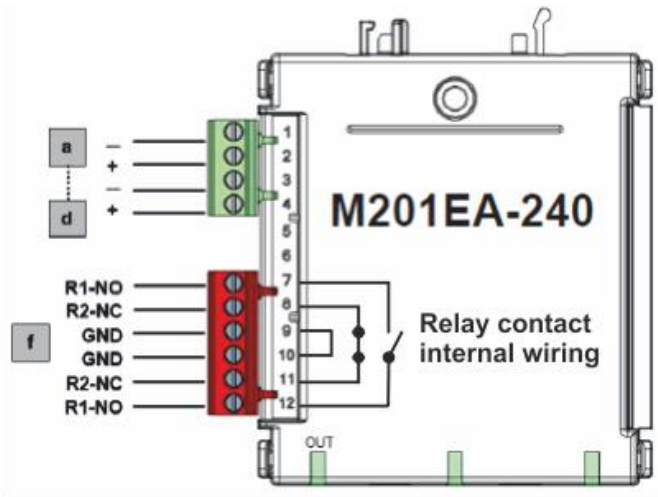


1:2 DIN



1.6 Wiring





Note.
The device has one normally open- and one normally closed relay switch

a: T1 Loop Output -. **b:** T2 Loop Output +. **c:** T3 Loop Input -. **d:** T4 Loop Input +

f: 5A at 30VDC, 5A at 250VAC relay terminals (resistive load)