

# CONV.ZONE MON. MODULE EM210EA-CZ Instruction Sheet R10268GB0



## **Schneider Electric Fire & Security Oy**

Sokerilinnantie 11 C  
FI-02600 Espoo, Finland  
Tel: +358 10 446 511  
Website: [www.se.com](http://www.se.com)  
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# 1 CONV.ZONE MON. MODULE - EM210EA-CZ

The CONV.ZONE MON. MODULE - EM210EA-CZ (FFS06717033) is used to link a zone of conventional devices to an intelligent system controlled by an addressable panel. The CZ has a resistor built in, making it especially suitable for connection to a conventional zone that operates in a hazardous area requiring intrinsically safe (IS) equipment. The module must only be connected to Schneider Electric control panels using analogue addressable communication protocols for monitoring and control.

A single tri-colour LED indicates the status of the module. In normal conditions, the LED can be set by command from the control panel to blink green when the module is polled. In the case of a fire alarm on the conventional zone, the LED is switched on constant red by panel command. If a fault is detected on the conventional zone or the zone supply voltage drops below 18V, or a fault with the external power supply is signalled, the LED will blink yellow if enabled on the control panel. When a short circuit is detected on the loop to either side of the module, the LED is switched to show a constant yellow light.

This module does not require maintenance.

## 1.1 Specifications

### 1.1.1 Intelligent loop

Max. Standby Current (@24 V and 25oC) External Supply Conventional Zone:

No Communication: 120  $\mu$ A

Max. Standby Current (@24 V and 25oC) Conventional Zone connected to Capacitive

EOL only, Loop Powered Conventional Zone:

No Communication: 1.3 mA

LED Current (Red): 1.3 mA

LED Current (Yellow): 4.5 mA

### 1.1.2 Conventional zone

Supply Voltage: 18 to 32 V (either from loop or external supply)

Maximum Standby Load Current: 3 mA for detectors

Maximum Zone Load: 17.5 mA (limited internally)

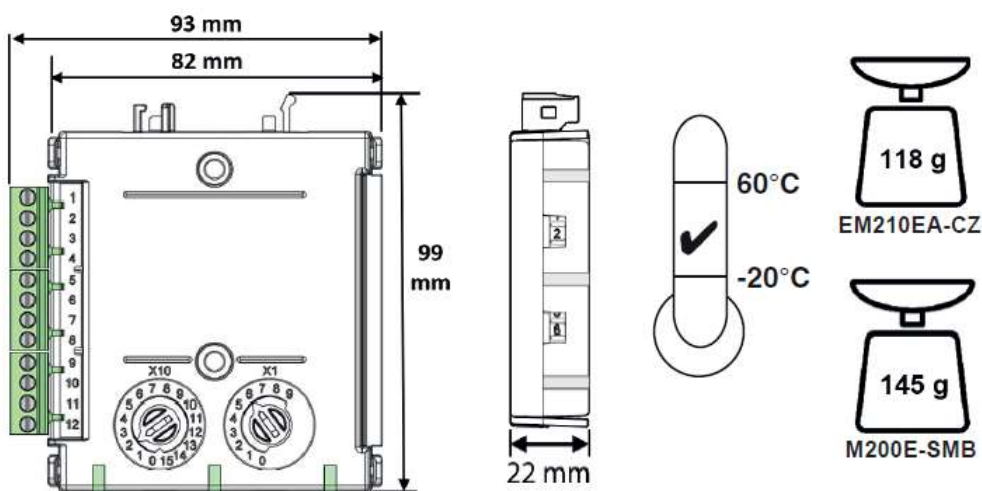
Maximum Conventional Line Resistance: 50  $\Omega$  (both legs)

End of Line Capacitor: 47 $\mu$ F non-polarised.  
M200E-EOL-C supplied.

### 1.1.3 General

Humidity:	5% to 95% relative humidity (non-condensing)
Operating temperature range	-20°C to +60°C
Ingress protection:	IP44 (mounted in M200E-SMB)
Maximum Wire Gauge:	2.5 mm <sup>2</sup>

### 1.1.4 Dimensions

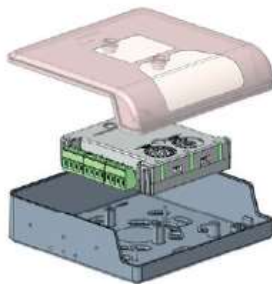


## 2 Installation

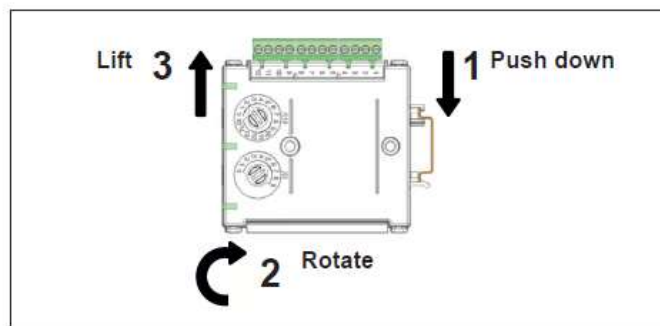
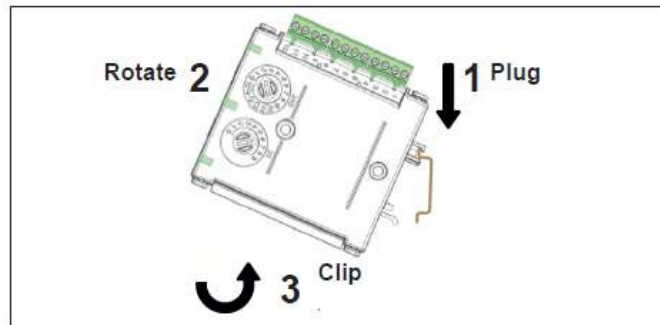
**Note:** These modules must only be connected to Schneider control panels using analogue addressable communication protocols for monitoring and control.

EM200 series modules can be mounted in several ways:

**1:1 M200E-SMB**



**1:2 DIN**



**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

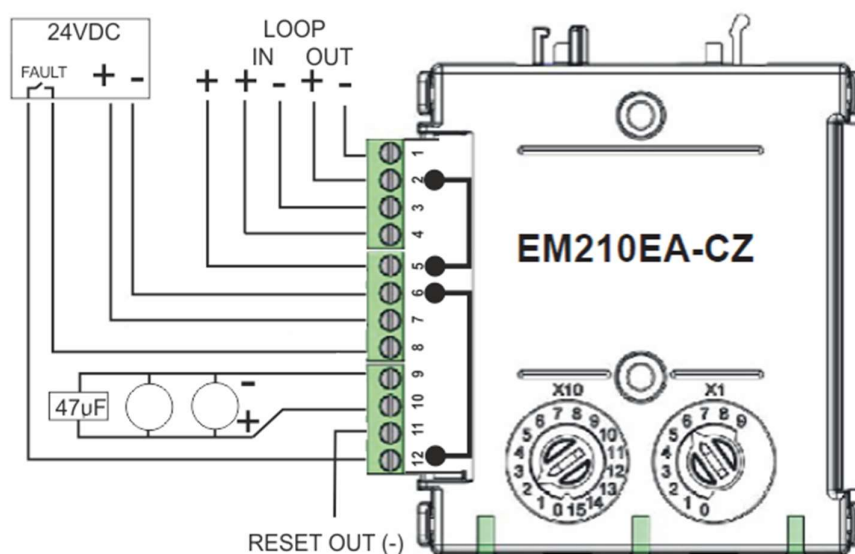
Wiring to all series EM200 modules is via plug in type terminals capable of supporting conductors up to 2.5 mm<sup>2</sup>.

### 2.1 Short Circuit Isolators

All EM200 series modules are provided with short circuit monitoring and isolators on the intelligent loop. If required the isolators may be wired out of the loop to facilitate the use of the modules on high current loaded loops, for example if sounders are used. To achieve this, the loop out positive should be wired to terminal 5 rather than terminal 2.

## 2.2 Wiring

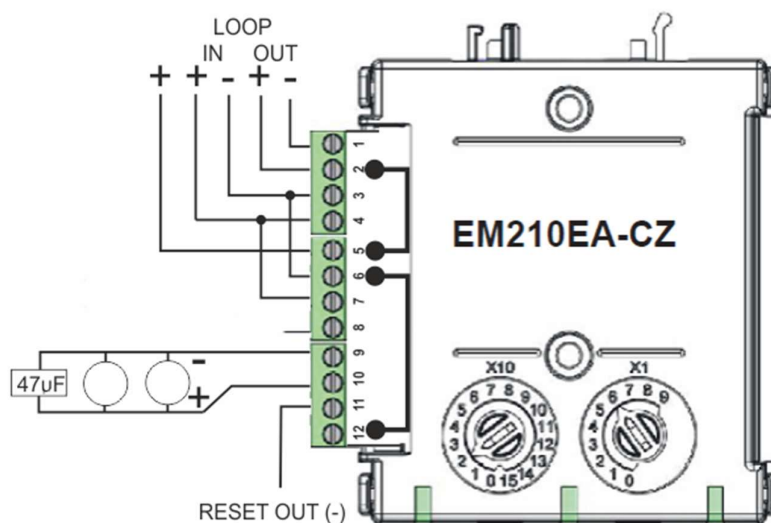
### 2.2.1 Power taken from external 24Vdc power supply or from the panel 24Vdc output



### 2.2.2 Power taken from the addressable loop

#### NOTE!

To avoid addressable loop overloading only one module / loop can be powered like this.



## 2.3 Address setting

The module address is selected by means of rotary decade address switches (see Figure 3). A screwdriver should be used to rotate the wheels to select the desired address, either from the front or the top of the module.

Note: The number of addresses available will be dependent on panel capability, check the panel documentation for information on this.

