

Conventional Zone Monitor Modules

EM210E-CZ

EM210E-CZR

Instruction Sheet

R10118GB0



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1 **Conventional Zone Monitor Modules EM210E-CZ and EM210E-CZR**

The AP200 series Conventional Zone Monitor Modules EM210E-CZ and EM210E-CZR are used in Esmi Sense FDP and FX 3NET fire detection systems using SLC and LC loop interface boards.

Compact design allows you to install more modules into the same special enclosure.

A built-in short circuit isolator saves installation costs.

A fault signal will be transmitted to the panel in case of a brake or short circuit in the conventional loop. A fault signal is also transmitted if the fault input is activated or the power supply is lost.

The conventional zone connected to the EM210E-CZ and -CZR is powered from the 24 VDC outputs of FX NET panel or external power supply. If the conventional zone module is powered from an external power supply unit, the addressable loop is fully isolated from the conventional zone and from the power supply.

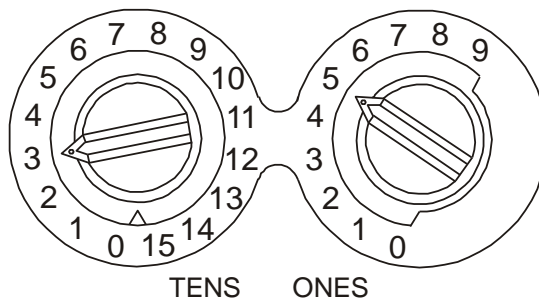
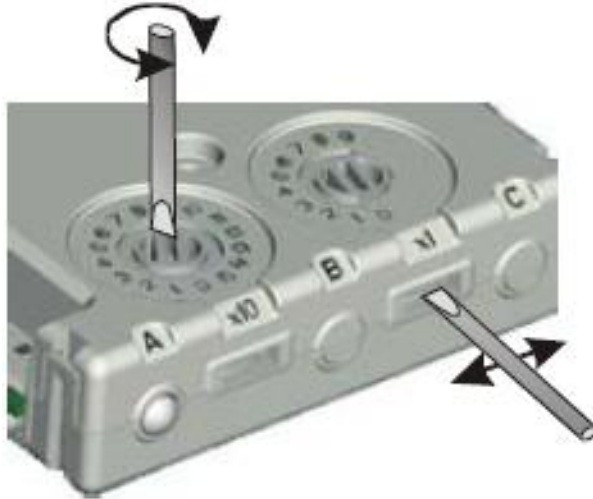
The EM210E-CZ and -CZR will transmit a fault signal of external power supply to the panel if a fault output of power supply unit is connected to the module.

If a module is powered from the 24 VDC outputs of Esmi Sense FDP or FX 3NET panel the panel's battery back up time must be checked.

Reset button on panel resets all detectors that are connected to a conventional loop and are in alarm state.

1.1 Address settings

The module address is selected by rotary switches. These can be accessed either from the front or the top of the module. A screwdriver should be used to rotate the wheels.



Rotary switches

1.2 Compatible detectors

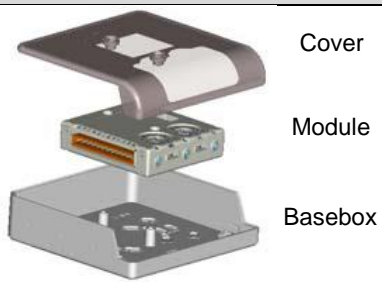
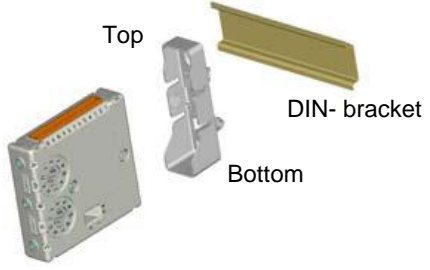
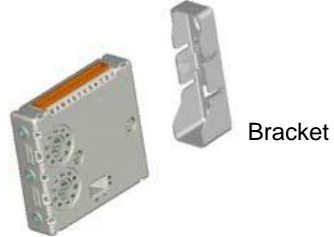
The EM-210E-CZ is compatible with	
100-, 400- and ED- series detectors	1451E, 2451E, 1151E, 2151E, 4451E, 5451E, 5451E2, ED2351E, ED2351TEM, ED4351E, ED5351TE and ED5351E
Beam detectors	6500R and 6500RS conventional beam detectors

Note! The EM210E-CZ module can not be used for intrinsically safe loops

1.3 Module mounting methods

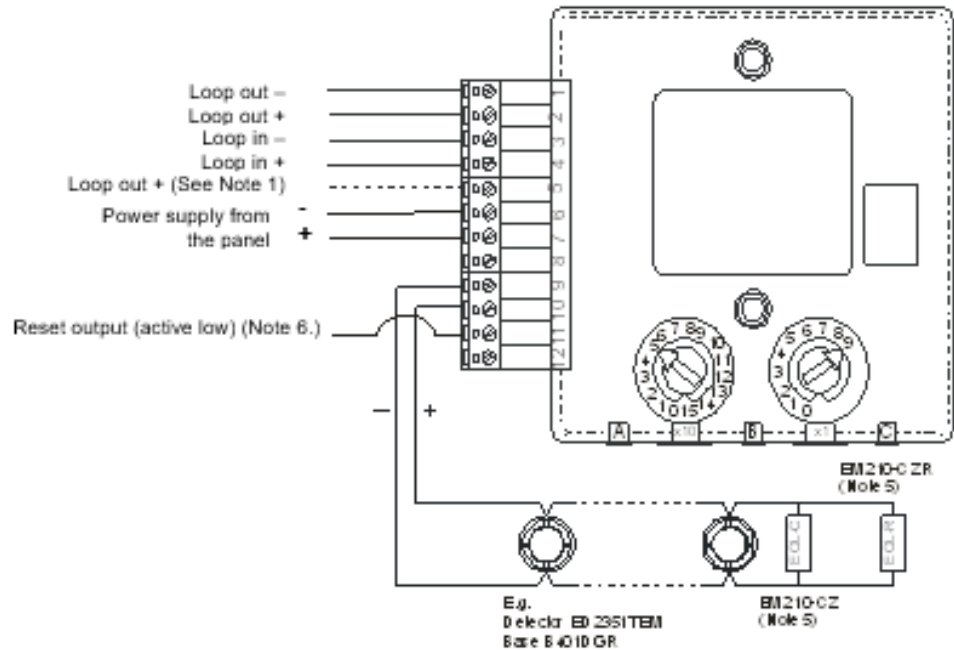
The 200 series addressable modules can be mounted in three different ways:

- Into a surface mounting box M200E-SMB
- With a DIN rail bracket M200E-DIN onto a DIN rail
- With panel mounting bracket M200E-PMB onto panel's back plate

Surface mounting box M200E-SMB	
<p>A surface mounting box has a transparent cover. Leds and address switches are visible through the cover without opening the cover.</p> <p>Surface mounting box base is affixed to the mounting surface, and then the module and the cover are screwed onto the base using the two screws supplied.</p>	 <p style="text-align: right; margin-right: 20px;">Cover</p> <p style="text-align: right; margin-right: 20px;">Module</p> <p style="text-align: right; margin-right: 20px;">Basebox</p>
DIN rail bracket M200-DIN	
<p>Installation to DIN rail allows the installation of several modules side by side. Address switches, located next to the LEDs, can be adjusted through a slot on the front edge of the product.</p> <p>Push Module into adaptor Bracket until it clips into place.</p> <p>Locate top clip over DIN rail and rotate bottom down to clip into place.</p> <p>To remove, lift up, then rotate top away from the rail.</p>	 <p style="text-align: right; margin-right: 20px;">DIN-bracket</p> <p style="text-align: right; margin-right: 20px;">Bottom</p>
Panel mounting bracket M200E-PMB	
<p>Bracket can be connected to module like a DIN rail bracket. Allows the installation side by side to the bottom of the installation enclosure.</p> <p>Adaptor bracket is mounted directly into panel by using 2 x M4 Pan head screws.</p> <p>Push module into adaptor until it clips into place.</p>	 <p style="text-align: right; margin-right: 20px;">Bracket</p>

1.4 Electrical Connections

1.4.1 Power supply from panel

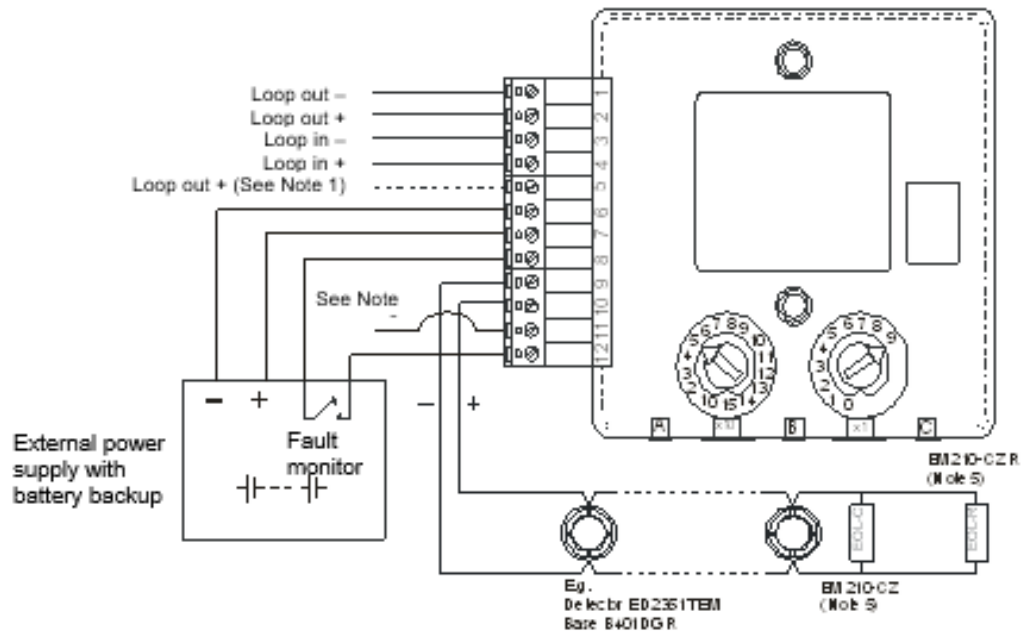


Notes!

1. If short circuit isolation is not needed, connect loop (+) out to terminal 5 instead of terminal 2. Terminal 5 is connected internally to terminal 4.
2. An external power supply from panel is connected to the terminals 6 and 7.
3. The EM210E-CZ/CZR can monitor conventional detectors mounted in B401DGR or B401R bases.
4. EOL-C is 47 μ F non-polarized capacitor (supplied). EOL-R is 3.9k Ω resistor (supplied).
5. EOL-C capacitor is used with EM210-CZ and EOL-R resistor is used with EM210-CZR
6. Output (terminal 11) is low for a short period during reset of this address. The output Can be used for resetting for example a beam detector.

Note! Check battery capacity of the panel.

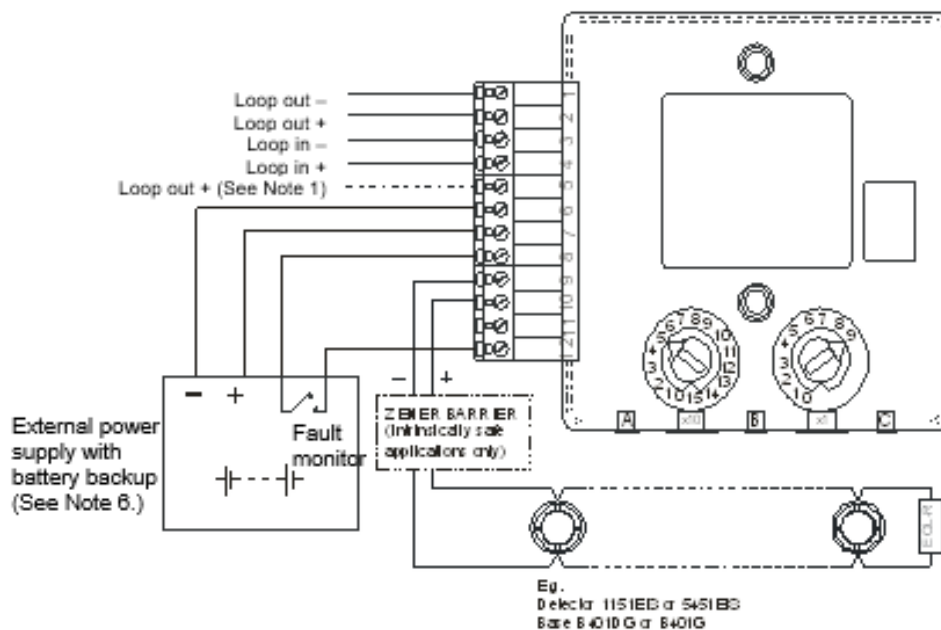
1.4.2 Power supply from an external power supply



Notes!

1. If short circuit isolation is not needed, connect loop (+) out to terminal 5 instead of terminal 2. Terminal 5 is connected internally to terminal 4.
2. If an external power supply is used, it is connected to the terminals 6 and 7.
3. The fault monitor is an external input, which is used to monitor an external contact, for example an external power supply fault such as mains failure.
4. The EM210E-CZ/CZR can monitor conventional detectors mounted in B401DGR or B401R bases.
5. EOL-C capacitor is used with EM210-CZ and EOL-R resistor (3.9kΩ) is used with EM210-CZR
6. Output (terminal 11) is low for a short period during reset of this address. The output can be used for resetting for example a beam detector.

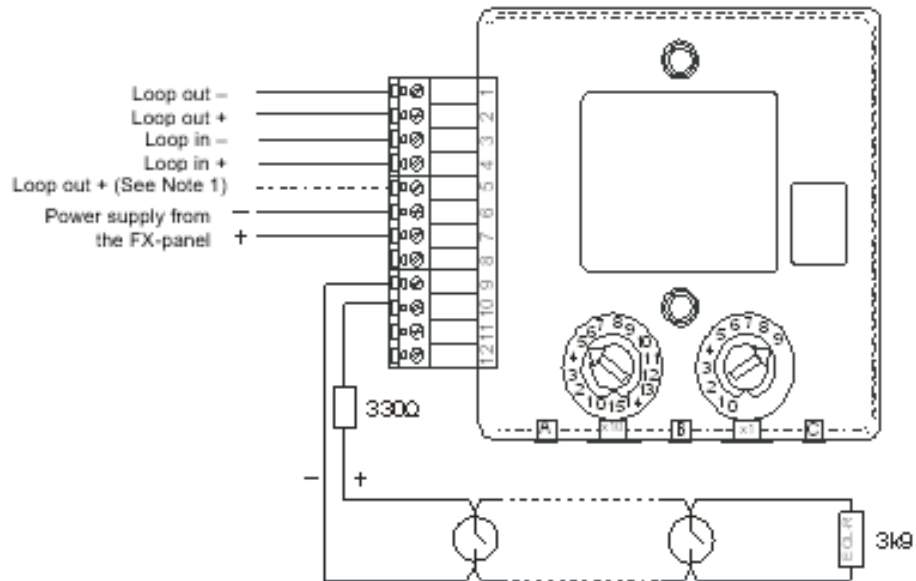
1.4.3 Intrinsically Safe detectors in the CZ loop (EM210E-CZR)



Notes!

1. If short circuit isolation is not needed, connect loop (+) out to terminal 5 instead of terminal 2. Terminal 5 is connected internally to terminal 4.
2. If an external power supply is used, it is connected to the terminals 6 and 7.
3. The fault monitor is an external input, which is used to monitor an external contact, for example an external power supply fault such as mains failure.
4. The EM210E-CZR can monitor conventional IS detectors mounted in B401DG or B401 bases.
5. EOL-R (3.9kΩ) (supplied)
6. External power can be provided as well from FX-panel

1.4.4 Connection replacing M512ME with EM210E-CZR



Notes!

1. If short circuit isolation is not needed, connect loop (+) out to terminal 5 instead of terminal 2. Terminal 5 is connected internally to terminal 4.
2. EOL-R (3.9kΩ) (supplied)

Note! Check battery capacity of the panel.

1.5 Product Codes

Description	Product code
EM210E-CZ	FFS06717030
EM210E-CZR	FFS06717031
Accessories	
Surface mounting box M200-SMB	FFS06717061
DIN rail bracket M200-DIN	FFS06717062
Panel mounting bracket M200-PMB	FFS06717063