



EM411R

inim

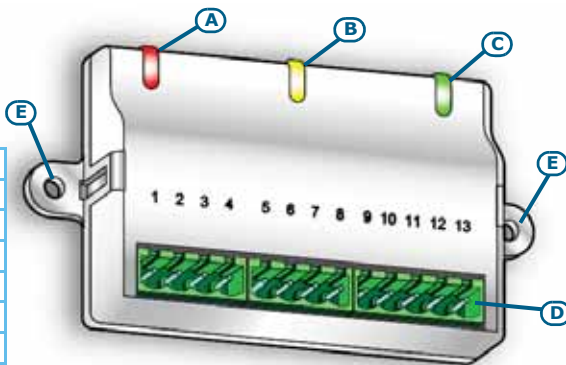


Konventionaalisen linjan moduli

Tuotekuvaus

EM411R modulilla voidaan liittää konventionaalinen linja (enintään 32 konventionaalista ilmaisinta tai painiketta) INIM:n analogis-osoitteelliseen silmukkaan ja keskuslaitteeseen (SmartLight ja SmartLoop).

Modulin takaa löytyy tarra, joka sisältää tekniset määrittelyt sekä sarjanumeron, joka yksilöi laitteen.

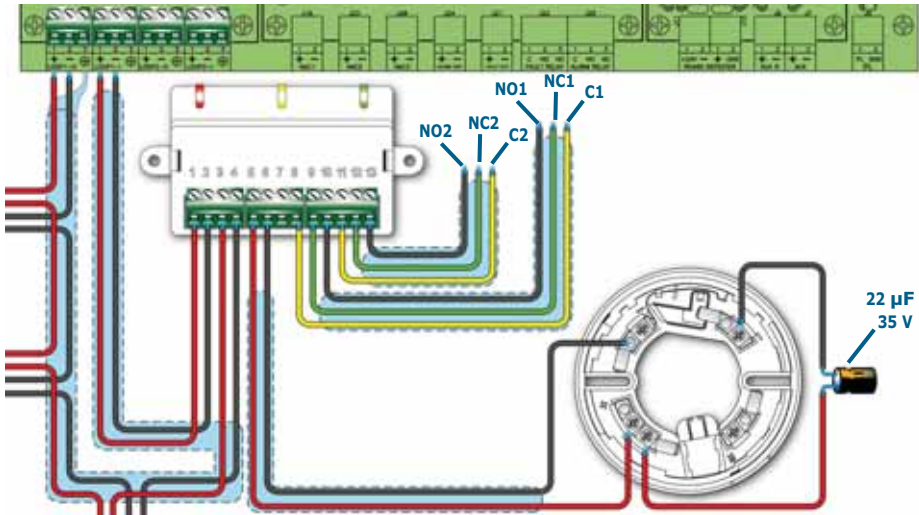


A	Konventionaalisen linjan LEDI
B	Oikosulkuerottimen LEDI
C	Lähdön LEDI
D	Liittimet
E	Kiinnityspisteet
F	Tekniset määrittelyt/sarjanumerotarra
G	Siirrettävät sarjanumerotarrat

Liittimet	Kuvaus	Huomio	
1 Silm. IN+	Liittimet silmukan tuloille	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.	
2 Silm. IN -			
3 Loop OUT +	Liittimet silmukan lähdöille		
4 Loop OUT -			
5 Konventionaalinen linja +	Konventionaalisen linjan liittämä	Linjassa viimeisessä ilmaisimessa oltava 22µF kondensaattori, kts. kuva	
6 Konv. linja -			
7			
8 C1	Yhteinen kärki 1		The two outputs activate simultaneously and cannot be activated separately.
9 NC1	Normaalisti kiinni kärki 1		
10 NO1	Normaalisti auki kärki 1		
11 C2	Common switch 2		
12 NC2	Normally closed switch 2		
13 NO2	Normally open switch 2		

LED	Colour	Function
A	Red	Alarm on conventional line
	Yellow	Fault (open or short) on conventional line
B	Yellow	Short circuit on loop cable
C	Green - ON solid	Output relay active
	Green blinking	Module is communicating

TECHNICAL SPECIFICATIONS	EM411R
Power supply	19-30Vdc
Current draw in standby status	1.2 mA
Maximum current draw in alarm status	60 mA
Conventional zone End Of Line	22µF 35v capacitor
Open fault threshold with no load	220 nF
Open fault threshold with load	2.2 µF
Alarm threshold	12 mA
Short fault threshold	50 Ohm
Relay contact rating	1 A / 30 Vdc
Operating temperature	-5°C / +40°C
Humidity (without condensation)	95% RH
Height	53 mm
Width (with anchor locations)	100 mm
Width (without anchor locations)	78 mm
Depth (with terminal boards)	29 mm
Depth (without terminal boards)	19 mm
Weight	66 g



Installation

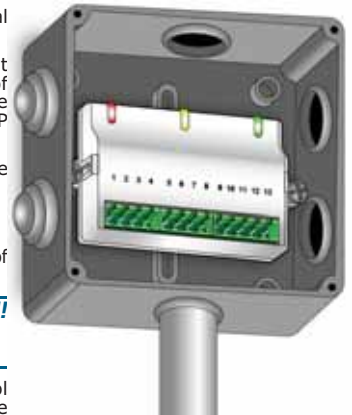
The module must be connected to the control panel via a 2 pole twisted-shielded cable. This cable carries both the power supply and the two-way digital communications data. Refer to the Installation section for the wiring diagram.

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. 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: 100 x 60 x 40 mm
- Protection grade IP44 or higher
- Compliant with the established standards and codes relating to the Installation of electrical systems

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!**



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 EITK-DRV driver

The EITK-DRV 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 EITK-DRV driver, refer to the respective handbook.

Warnings and limitations

The EM411R 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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