Description

ONEMODULECNV, is a module to connect a conventional fire detection line on a ONEProtocoll, addressable fire detection System Reduced dimension permits device installation in any environment type. Module is provided with short-circuit monitoring isolators, and addresses can be programmed by means of the programmer or with the addressing function of teledata smoke detector.

Installation

The modules must be used in combination with compatible control panels employing the communication protocol for monitoring and control. The location of modules should follow recognised national or international installation codes of practice. Connections to the terminals are polarity sensitive thus, please, check them by referring to the wiring diagrams and tables for each model. Modules are provided with a 2,74 Kohm end of line resistor.

Technical Specifications

Loop's voltage	27V Average
current consumption	130 uA (@ 27V) LED's
current consumption	6 mA (@ 27V)
Operating temperature range	From -5°C (min) to +40 °C (max)
Humidity	95% RH (no condensation)
Dimensions	106 x 54 x 27 mm
Maximum wire gauge	2.5 mm2
External PW Supply voltage	27Vcc
Line cut Current Threshold	< 6mA
Stand by Current Thresholds	6 – 16 mA
Alarm Current Thresholds	16 – 80 mA
Short Cut Current Threshold	> 80 mA

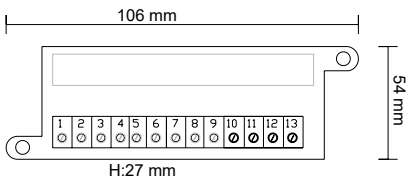
Caution

Disconnect loop power before installing the module.

WARNING
Electrostatic Sensitive Device.
Before the maintenance / inspection of the device, it's necessary to remove the electrostatic charge on a grounded metal surface. Note: for futher information see IEC 60747-1.

WARNING
When switching an inductive load, in order to protect the module from surges caused by counter-EMF, it is important to protect the internal junctions. A diode with a reverse breakdown voltage of at least ten times the circuit voltage (DC applications only) or a varistor (AC or DC applications) should be connected in parallel to the load.

Module view



Front

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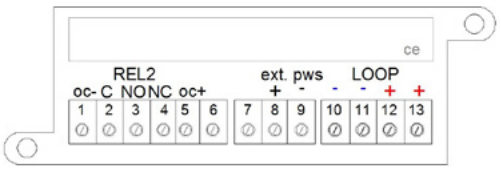
ONEMODULECNV
1 Conventional Fire detection line
+ 1 FORM C out

SETTING THE ADDRESS

Modules can be addressed by using a special hand-held programming unit **(ONEPROGRAMMER)** . Addresses may be selected over the range from 1 to 240, although, of course, each device on the loop must have a unique address. - Connect the programmer to the module using the proper cable (refer to the **ONEPROGRAMMER** instruction manual). - After installing all modules and other loop devices, apply power to the loop in accordance with the panel's installation instructions. The input / output module holds two addresses. The address assigned by the **ONEPROGRAMMER** always relates to the input channel; the output channel is automatically assigned the consecutive address.

The **ONEMODULECNV** is provided 1 conventional line for conventional devices and a FORM C output.



Device's Mounting

According to local electrical regulations, mount securely to a single gang box using the provided screws.

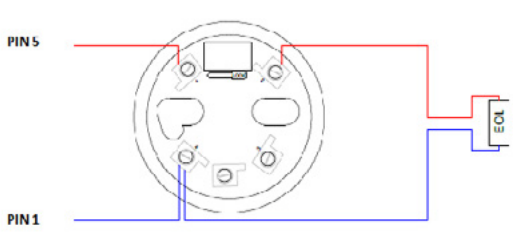
Maintenance

Test the modules periodically according to local codes of practice. Those devices contain no serviceable part, so, should a fault develop, return them to your system supplier for exchange or disposal, according to warranty conditions.

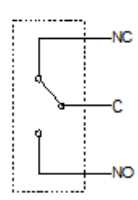
PIN function table

Terminal		Description
1	OC-	Conventional line -
2	C	REL 2 common
3	NO	REL 2 norm. open
4	NC	REL 2 norm. close
5	OC+	Conventional line -
6	Not used	Not used
7	Not used	Not used
8	Ext PWS+	External Power supply +
9	Ext PWS-	External Power supply -
10	LOOP line OUT(-)	LOOP negative output
11	LOOP line IN(-)	LOOP negative input
12	LOOP line OUT(+)	LOOP positive output
13	LOOP line IN(+)	LOOP positive input

Example of conventional line connection



Relay 2 contact PIN



Warnings And Limitations

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards.

Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

Warranty

This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage.

Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified.

Full details on our warranty and product's returns policy can be obtained upon request

CE

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