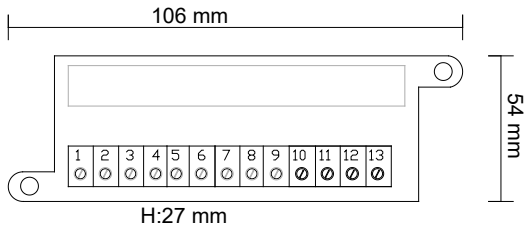
Description

ONEMODULE_AP family are devices with the same hardware with four types of configuration that can be use as, general pourpose input / output ONEMODULE_AP. Reduced dimension permits device installation in any environment type. All series modules are provided with short-circuit monitoring isolators, and addresses can be programmed by mans of the programmer or with the addressing function of teledata smoke detector.

Module View



Front

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 27 Kohm end of line resistor and a 10 Kohm alarm resistor, depending of the configuration.

Common 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
Provided with integrated short circuit isolator	

Setting the Address

Modules can be addressed by using a special hand-held programming unit (ONEPROGRAMMER_AP).

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_AP 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.

Device's Mounting

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

Caution

Disconnect loop power before installing the modules.

WARNING
Electrostatic Sensitive Device.
Before the maintenance/ inspection fo 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.

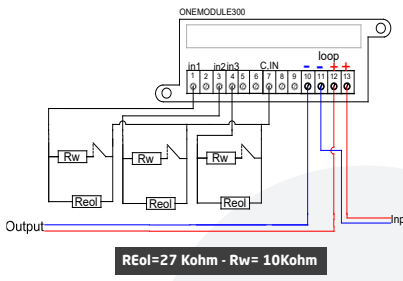
Maintenance

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.

ONEMODULE300_AP

The **ONEMODULE300_AP** is provided with 3 monitor input

Terminal		Description
1	in1	Input n° 1
2	Not used	Not used
3	in2	Input n°2
4	in3	Input n°3
5	Not used	Not used
6	Not used	Not used
7	C,IN	Common Input
8	Not used	Not used
9	Not used	Not Used
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



REol=27 Kohm - Rw= 10Kohm

ONEMODULE301_AP: 3 monitored input + 1 out monitor
ONEMODULE111_AP: 1 monitor inputs + 1 out FORM C + 1 monitor out
ONEMODULE300_AP: 3 monitor input
ONEMODULE120_AP: 1 monitor input + 2 out FORM C
ONEMODULE110_AP: 1 monitor input + 1 out FORM C

ONEMODULE111_AP

The **ONEMODULE111_AP** is provided with 1 monitor input, 1 out from C , 1 monitor out and an external power supply.

Terminal		Description
1	in1	Input n° 1
2	C	Common (REL)
3	NO	normally open (REL)
4	NC	normally closed (REL)
5	O-	Output negative
6	O+	Output positive
7	C,IN	Common Input
8	External power +	External power supply INPUT (+)
9	External power -	External power supply INPUT (-)
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

ONEMODULE301_AP

The **ONEMODULE301_AP** is provided with: 3 monitor input, 1 out monitor and an external power supply

Terminal		Description
1	in1	Input n° 1
2	Not used	Not used
3	In2	Input n° 2
4	In3	Input n° 3
5	O-	Output negative
6	O+	Output positive
7	C,IN	Common Input
8	Extern power +	Extern power supply INPUT (+)
9	Extern power -	Extern power supply INPUT (-)
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

ONEMODULE120_AP

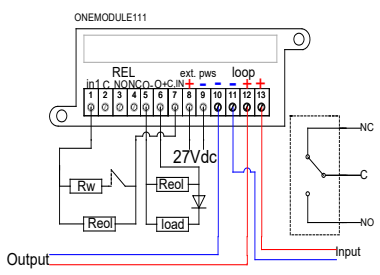
The **ONEMODULE120_AP** is provided with: 1 monitor input and 2 out form C.

Terminal		Description
1	in1	Input n° 1
2	C	Common (REL 2)
3	NO	normally open (REL 2)
4	NC	normally closed (REL 2)
5	R1	Rel 1
6	Not used	Not used
7	C,IN	Common Input
8	R1	Rel 1
9	Not used	Not used
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

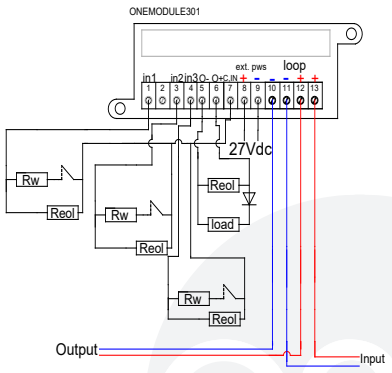
ONEMODULE110_AP

The **ONEMODULE110_AP** is provided with 1 monitor input, 1 out from C , 1 monitor out and an external power supply.

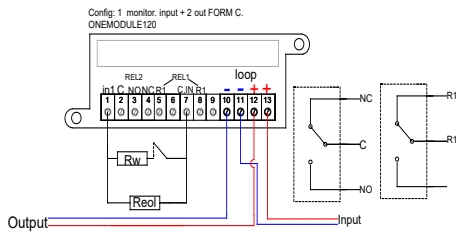
Terminal		Description
1	in1	Input n° 1
2	C	Common (REL 1)
3	NO	normally open (REL 1)
4	NC	normally closed (REL 1)
5	Not used	Not used
6	Not used	Not used
7	C,IN	Common Input
8	Not used	Not used
9	Not used	Not used
10	LOOP line OUT(-)	LOOP negative output
11	LOOP line IN(-)	LOOP negative input
12	LOOP line OUT(+)	LOOP positive output
13	LOOP line IN(+)	LOOP positive input



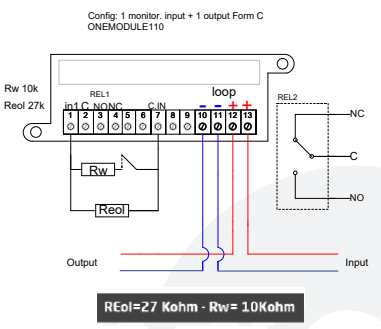
REol=27 Kohm - Rw= 10Kohm



REol=27 Kohm - Rw= 10Kohm



REol=27 Kohm - Rw= 10Kohm



REol=27 Kohm - Rw= 10Kohm

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

TELEDATA S.R.L.
Via Brescia 24 G
20063
Cernusco S.N.
Milano

EN 54-17
EN 54-18

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0370-CPR-3642

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ONEMODULE111_AP: 1 monitor inputs + 1 out FORM C + 1 monitor
ONEMODULE300_AP: 3 monitor input
ONEMODULE120_AP: 1 monitor input + 2 out FORM C
ONEMODULE110_AP: 1 monitor input + 1 out FORM C

Teledata
20063 Cernusco sul Naviglio (MI) - Via Brescia 24 G - Italy
Tel.: +39 02 27 201 352 - +39 02 25 92 795 | mail: info@teledata-i.com

www.TeledataOne.com