# FD9002L - 9004L - 9006L - 9008L
## Conventional fire alarm panel

## Functional characteristics

> Control of the lines and controllable outputs for fault conditions (short circuit and interruption) and automatic reset;

> Ability to delay controllable and general outputs for fire for a period of 0 to 7 minutes after the registration of state Fire with DIP switch;

> Built-in sounder in case of fire – monotonal, continuous with the possibility of exclusion;

> Test mode of each (fire alarm) lines;

> Ability to Disable each of the fire alarm lines;

> Ability to Disable controllable outputs for fire;

> Interface for communication with external devices RS485 and networking / optional /;

> Possibility for GPRS/LAN communication and remote control and monitoring / optional /;

> Possibility Ability to add module relay FD9004. The module expands the outputs of the Panel.

## The panel meets standarts:

> EN 54-2:1997
> EN 54-2:1997/A1:2006
> EN 54-2:1997/AC:1999
> EN 54-4:1997
> EN 54-4:1997/A1:2002
> EN 54-4:1997/A2:2006
> EN 54-4:1997AC:1999
> EN 50130-4:2011
> EN 55022:2006/A1:2007
> EN 60950-1:2006/A11:2009

## Lines

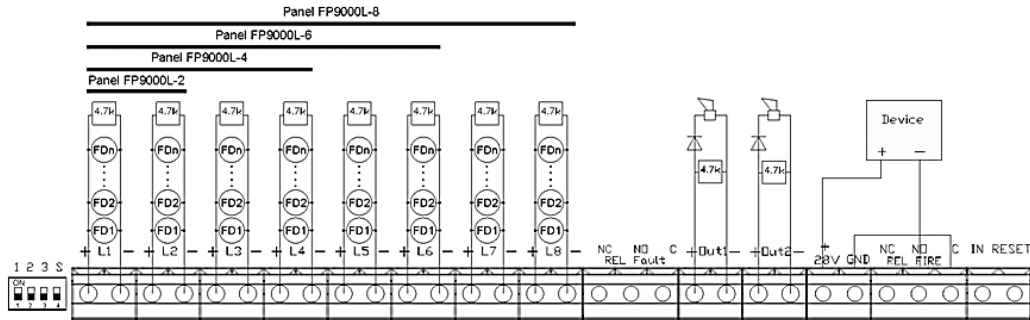| Number of lines | 2, 4, 6 or 8 | Optional |
|---|---|---|
| Maximum number of fire detectors in a line | 32 | |
| Type of the joining line | biconductional | |
| Plume maximum resistance | 100 Ω | |
| **Current thresholds in the lines:** | | |
| IInterruption | from 1 to 4 mA | |
| Duty mode | from 5 to 16 mA | |
| Fire | from 17 to 70 mA | |
| Fire direct /without delay outputs/ | from 40 to 70 mA | |
| Short circuit | > 70 mA | |
| **Lines functional characteristics:** | | |
| Verification quantity before entering Fire mode: | 2 | |
| Verification and regestrating fault in a earth conductor | yes | selectively |

## Outputs

| Independent relay output in case of fire alarm: | | |
|---|---|---|
| Quantity | 1 | |
| Type | switching | NC / NO |
| Electrical characteristics | 3A/125V AC, 3A/30V DC | |
| **Controllable output in case of fire alarm:** | | |
| Quantity | 2 | |
| Type | potential relay | |
| Electrical characteristics | (19-28)VDC/ 0,5A | |
| **Additional relay outputs (modul M9000R 2/4/6/8) in case of fire alarm:** | | |
| Quantity | 2/4/6/8 | |
| Type | potential-free | NC or NO |
| Electrical characteristics | 3A/125V AC, 3A/30V DC | |
| **Independent relay output in case of failure:** | | |
| Quantity | 1 | |
| Type | potential-free, switching | NC / NO |
| Electrical characteristics | 3A/125V AC, 3A/30V DC | |
| **Delay outputs:** | | |
| Time delay of switching outputs | 0 ÷ 7 minutes | |

## Power supply

| Mains power | |
|---|---|
| Voltage | (187-252)V AC |
| Frequency | 50/60 Hz |
| Maximum power to mains power | 38W / AC |
| **Battery power** | |
| Battery quantity | 2 |
| Type of the battery | Lead, gel |
| Battery rated voltage | 12V DC |
| Reted power C20 | 1.3Ah, 4.5Ah, 5 Ah |
| Charger voltage | 27,6 VDC      temperature compensated |
| **Consumption of battery power in standby mode** | |
| Configuration with 2 lines | < 40 mA to 24 VDC |
| Configuration with 4 lines | < 50 mA to 24 VDC |
| Configuration with 6 lines | < 60 mA to 24 VDC |
| Configuration with 8 lines | < 70 mA to 24 VDC |
| **Time needed in security mode when mains power supply is down with battery 12V/ 5Ah** | |
| Configuration with 2 lines | 120h |
| Configuration with 4 lines | 90h |
| Configuration with 6 lines | 80h |
| Configuration with 8 lines | 72h |

| Time needed in security mode when mains power supply is down with battery 12V/ 1.3Ah | |
|---|---|
| Configuration with 2 lines | 32h |
| **Executive devicess powering** | |
| Voltage | (19-28)V DC |
| Maximal current (including the controllable outputs current) | 1A |
| **Fuses** | |
| Mains power 230V AC | 4,0 A fusible |
| Battery power | 4,0 A fusible |
| Powering external devices | 1,85 A automatic |
| Controllable outputs | 1,1 A automatic |
| | |
| **Over all size** | **310x240x80 mm** |
| **Weight without batteries** | **1,25 kg** |
| **Safety degree** | **IP30/ EN 60529** |

## Terminals



## Deliveery composition and complexity/set

| | | | |
|---|---|---|---|
| Fire Station FP 9000L | 1 qty. | - for configuration with 8 lines /FP9000-8/ | 8 qty. |
| EOL - resistor 4,7kΩ/0,5W: | | (EOL) End for controllable output - resistor 4,7kΩ/0,5W; | 2 qty. |
| - for configuration with 2 lines /FP9000-2/ | 2 qty. | Fuse 4,0A; | 2 qty. |
| - for configuration with 4 lines /FP9000-4/ | 4 qty. | Connective bridge for batteries; | 1 qty. |
| - for configuration with 6 lines /FP9000-6/ | 6 qty. | Packaging. | 1 qty. |