# SV SISTEMI DI SICUREZZA

## ITALY



# EXFIRE360/ MINI-EXFIRE360

## EXCPU360 TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION

REVISION 06 OF 13/10/2020

TS-0003-EN-REV06

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## INDEX OF REVISIONS

| REVISION | DESCRIPTION | DATE |
|----------|-------------|------|
| Revision.01 | Preliminary version | 17/01/2010 |
| Revision.02 | Revised for certification scope | 27/03/2010 |
| Revision.03 | Revised for certification scope | 20/10/2010 |
| Revision.04 | Revised for certification scope | 26/01/2012 |
| Revision.05 | Revised for IMQ certification scope | 10/01/2017 |
| Revision.06 | Revised for updating company address | 13/10/2020 |

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# 1 GENERAL INFORMATION

## 1.1 CODES AND STANDARDS

Design of hardware and software have been developed according to the following reference standards.

Construction Products Regulation (CPR) – Regulation 305/2011.
"Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC".

EN 54-2
"Fire detection and fire alarm systems - Part 2: Control and indicating equipment"

EN 54-4
"Fire detection and fire alarm systems - Part 4: Power supply equipment)"

EN 12094-1
"Fixed firefighting systems - Components for gas extinguishing systems - Part 1: Requirements and test methods for electrical automatic control and delay devices (only for EX6EV-C card)"

EN 60079-29-1
"Explosive atmospheres - Gas detectors - Performance requirements of detectors for flammable gases"

## 1.2 DESIGN REQUIREMENTS

EXCPU360 has the environmental classification of the EXFIRE360 control panel.

## 1.3 MANUAL CONTROLS

Card is not equipped with manual controls.

## 1.4 VISIBLE INDICATIONS

Alarm, fault and other supervisory or monitoring indications are visible on the Master display, light emitting indicators adjacent to the display and on ModLcd displays installed on each module.
Touch-screen operations on Master display give access to the panel functions (at access levels 1/2/3).
Visible indications are clearly identified at access level 1 for their specific function.

## 1.5 DISTINCT LIGHT INDICATIONS

Visible indications are clearly identified at access level 1 for their specific function. Mandatory visible indications could be fully tested through "Test LED" function available at level 2.
EXCPU360 is also equipped with 6 LEDs that identify the card status.

## 1.6 INDICATIONS SHOWN ON ALPHANUMERIC DISPLAYS

EXCPU360 has no further indications.

## 2    EXCPU360 PRESENTATION

EXCPU360 is the control unit of the EXFIRE360 control panel. It can be used in redundant configuration, with "hot-swap" functionality and automatic master/slave operation.

It communicates with the I/O cards of the system via a redundant CANbus; EXCPU360 can be configured through USB port, using the programming software SV Protection.

### 2.1    MAIN FEATURES

- housed in the CPU rack with two plastic rails;
- 96 pins rear connector for "hot-swap" connection to BUSCPU board;
- USB port for system configuration (using programming software SV Protection);
- supply voltage: 21÷30 Vdc;
- standby current consuption: 50 mA;
- working temperature: -5 to +40°C;
- storage temperature: -10 to +50°C;
- humidity range (UR): <= 95% non-condensing;
- dimensions: standard Eurocard size (160 mm x 100 mm);
- six LEDs on card front panel;
  - CPU (green): steady ON if 24 Vdc input voltage is present;
  - RUN (green): identifies the Master unit;
  - FAULT (yellow): blinking when a fault condition is present;
  - SYNC (red): identifies the initialization phase;
  - ETH (green): steady ON when Ethernet link is ON;
  - BUS (green/red): identifies the CANbus status.

### 2.2    EXCPU360 REDUNDANCY

The redundancy operation is managed by both EXCPU360 units, depending by diagnostics. Each card performs a series of checks on internal components and monitors communication and voltages of the adjacent unit.

In normal condition, both EXCPU360 receives the messages transmitted by the I/O cards but only the Master is enabled to transmit data and command to the system.

When an abnormal condition is detected on the Master unit, this will be swapped to Slave and the panel control will be taken by the redundant unit.

## 3    MAINTENANCE

EXCPU360 can be connected or disconnected when desired; in case of removal, panel will display the message "MISSING CPU". Please wait 30 seconds before inserting the card again, to let the card electronic discharge completely.

Once the card will be connected anew the panel will cancel the fault indication.