

SV SISTEMI DI SICUREZZA

ITALY



**EXFIRE360/
MINI-EXFIRE360
CANBUS TECHNICAL SPECIFICATION**

TECHNICAL SPECIFICATION

REVISION 06 OF 13/10/2020

TS-0005-EN-REV06

PROPERTY RIGHTS

SV Sistemi di Sicurezza and the SV logo are registered trademarks of SV Sistemi di Sicurezza Srl and are used under license.

Specifications and other information shown were current as of publication and are subject to change without notice.

* * * * *

INDEX OF REVISIONS

REVISION	DESCRIPTION	DATE
Revision.01	Preliminary version	17/01/2010
Revision.02	Revised for certification scope	08/03/2010
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

* * * * *

INDEX

1	GENERAL INFORMATION	4
1.1	CODES AND STANDARDS	4
1.2	DESIGN REQUIREMENTS.....	4
1.3	MANUAL CONTROLS.....	4
1.4	VISIBLE INDICATIONS.....	4
1.5	DISTINCT LIGHT INDICATIONS	4
1.6	INDICATIONS SHOWN ON ALPHANUMERIC DISPLAYS.....	4
2	CANBUS PRESENTATION	5
2.1	MAIN FEATURES	5
3	MAINTENANCE.....	5

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

CANBUS 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.

1.6 INDICATIONS SHOWN ON ALPHANUMERIC DISPLAYS

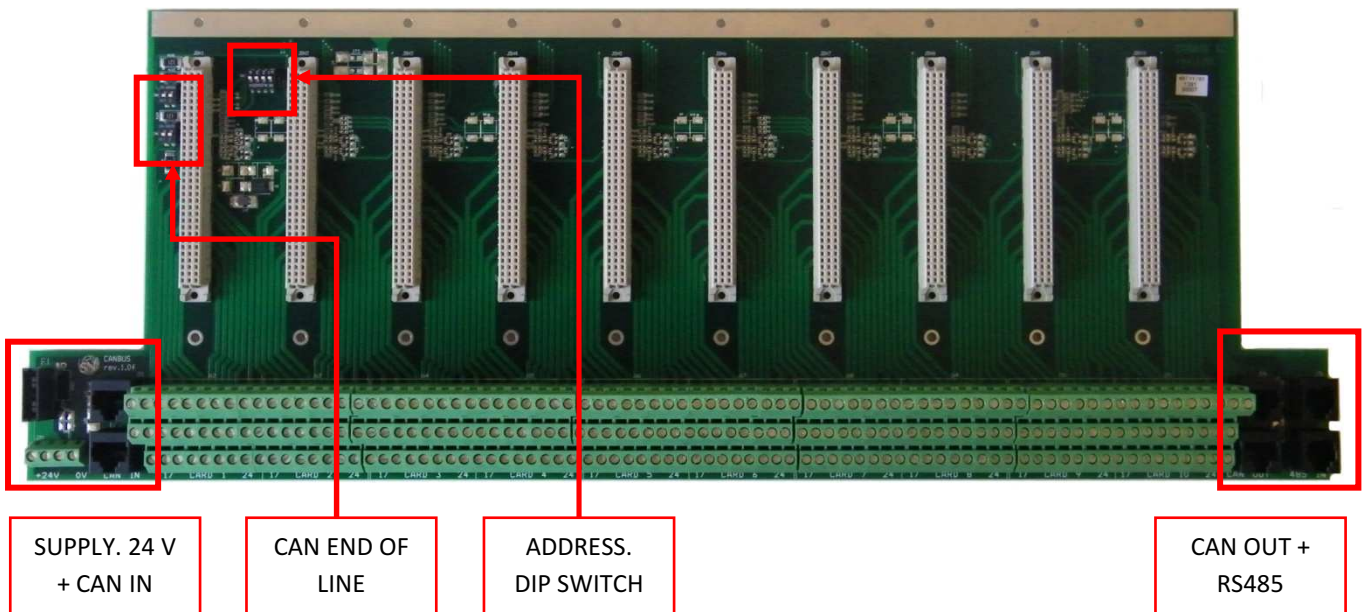
CANBUS has no further indications.

2 CANBUS PRESENTATION

CANBUS is an interface board, assembled in the rear section of the CANBUS rack, for the connection of a maximum of ten input/output cards. It distributes 24 Vdc power supply and connects the I/O cards towards EXCPU360 control units (via CANbus) and MODLCD (via RS485 lines).

The board can be addressed using a 4-position dip-switch (top left) with a binary encode; furthermore two 2-position dip switches can enable the end of line resistor for the CAN buses (on the terminal board).

For last, each connector of the CANBUS board is configured for the automatic addressing of the I/O cards.



2.1 MAIN FEATURES

- installed in the rear section of the CANBUS rack;
- ten 96 pins connectors for “hot-swap” insertion of input/output cards;
- four terminals for power supply;
- 24 terminals for each card slot;
- 20 A fuse on power supply line;
- 4 RJ45 connectors for redundant CAN buses;
- 2 RJ11 connectors for redundant RS485 serial lines;
- 4-position dip-switch for board addressing;
- two 2-position dip-switches for enabling CAN end-of-line resistor;
- working temperature: -5 to +40°C;
- storage temperature: -10 to +50°C;
- humidity range (UR): ≤ 95% non-condensing;
- dimensions: 500 mm x 182 mm.

3 MAINTENANCE

When a replacement of CANBUS is required, for first disconnect the fuse, then unplug the communication cables and lastly remove all the wires connected to the terminals.

Being a component necessary for the EXFIRE360 operation, any maintenance procedure implies that the complete protection of the system cannot be guaranteed until the end of the maintenance activity, so all the required actions must be taken in account.