SV SISTEMI DI SICUREZZA

ITALY

EXFIRE360/ MINI-EXFIRE360

FRBUS TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION

REVISION 06 OF 13/10/2020

TS-0017-EN-REV06

SV Sistemi di Sicurezza - Headquarters: Via Matteotti, 55/57, 24050, Grassobbio (Bergamo) Tel.+39.035.65.70.55

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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

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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

FRBUS 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

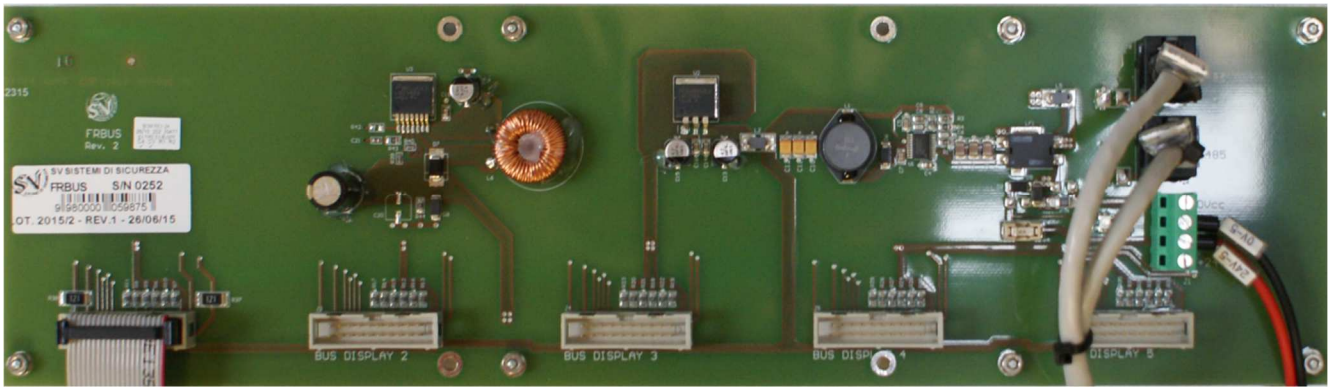
Visible indications are clearly identified at access level 1 for their specific function. Mandatory visible indications could be fully tested through "Test LED" function available at level 2.

1.6 INDICATIONS SHOWN ON ALPHANUMERIC DISPLAYS

FRBUS is not equipped with further indications.

2 FRBUS PRESENTATION

FRBUS is an interface board, assembled in the rear section of the FRBUS rack, for the connection of a maximum of five MODLCD (via 20-pins IDC connectors). It distributes 24 Vdc, 5 Vdc and 3.3 Vdc power supplies and connects the I/O cards with MODLCDs, through two redundant RS485 serial lines.



2.1 MAIN FEATURES

- installed in the rear section of the FRBUS rack;
- five 20 pins IDC connectors for “hot-swap” insertion of MODLCD cards;
- four terminals for power supply;
- 2 RJ11 connectors for redundant RS485 serial lines;
- supply voltage: 21÷30 Vdc;
- standby current consumption: 50 mA;
- working temperature: -5 to +40°C;
- storage temperature: -10 to +50°C;
- humidity range (UR): <= 95% non-condensing;
- dimensions: 350 mm x 100 mm.

3 MAINTENANCE

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.