SmartLine

Conventional fire-detection control panel

The extreme compactness, trouble-free installation, uncomplicated programming procedures and simple end-user operation make this highly competitive control panel ideal for all small and medium applications. The numerous functions (timers, equational logic, etc.), extensive flexibility (automatic output balancing, multifunction inputs, customizable outputs, gas function integration, etc.) and innovative connectivity capabilities (RS485 BUS for power supply stations, Internet connection, etc.), provide the tranquility of knowing for sure that this powerful tool is capable of satisfying every need of every type of installation.Three versions are available: SMARTLINE020 (non-expandable conventional 2 zone panel), SMARTLINE020/4 (conventional 4 zone panel expandable to 20 zones), SMARTLINE036 (conventional 4 zone panel expandable to 36).

SmartLine control panels have supervised outputs (one on the motherboard and one on each added expansion board) for the activation of audio-visual signalling devices, a customizable relay output, fault signaling outputs and two 24V outputs (one constant and one interruptible by installer-defined conditions). Additionally, each detection zone provides a terminal which can be configured as:

• Open collector output (activated by programmable conditions).
• Supervised input.
• 4-20mA gas detector interface.

The system information is provided through the graphic display and LEDs on the control panel frontplate. The RS485 BUS supports up to 4 remote repeater panels (SmartLetUSee/LCD-Lite). These repeater panels replicate all the fire alarm system data and allow users to access and control the system in accordance with their authorized access level. The BUS also supports two power-supply stations which can be connected in such a way as to allow supervision of their operating capability and activation/deactivation of their output power during predefined conditions. Programming from the control panel is straightforward and trouble free thanks to the easy-to-follow instructions on the display. The system can also be programmed from a computer via an RS232 serial port connection. The SmartLAN/485 board allows the control panel to connect to an Ethernet network for remote access via the Internet. Once the remote connection has been established, it is possible to modify the configuration parameters, upload/download programming data and/or manage the system by means of the supervisory software based on SmartLook graphic maps. Addition of a SmartLetLoose/ONE fire extinction board to any SmartLine series fire control panel provides the system with GAS extinguisher control capabilities in compliancy with EN12094-1. SmartLetLoose/ONE enhanced control panels provide all the functions required by the applicable normative and are capable of managing all devices required for fire extinction system management. SmartLine fire extinction control panels can operate autonomously or can interface with addressable analogue control panels from the SmartLoop series by simply connecting them to the RS485 BUS of the latter (extinction stations for addressable systems).

Available outputs

LINES
Each control panel line provides 2 terminals for the connection of detectors and callpoints. The control panel is capable of discriminating between the activation of a callpoint and that of a detector.

I/O TERMINALS
Each control panel line provides an I/O terminal which can be configured as:
• Programmable Open-collector output.   • Programmable Supervised Input.   • Input for 4-20 mA Gas detectors.

DIALLER
Supervised output for the activation of a telephone dialler in the event of an alarm (Certified as E output in accordance with EN54-1) Closes to GND in the event of activation.

RS485 BUS FOR REPEATER CONNECTION (4)
Accepts up to 4 SmartLetUSee/LCD repeater panels Connects by means of shielded twisted pair cable (4 poles) which also supplies power to the repeaters.

REMOTE FAULT SIGNALLING
The control is equipped with a fault output (dry contact).

ALARM SIGNALLING
Supervised alarm output protected by a self-resetting fuse.
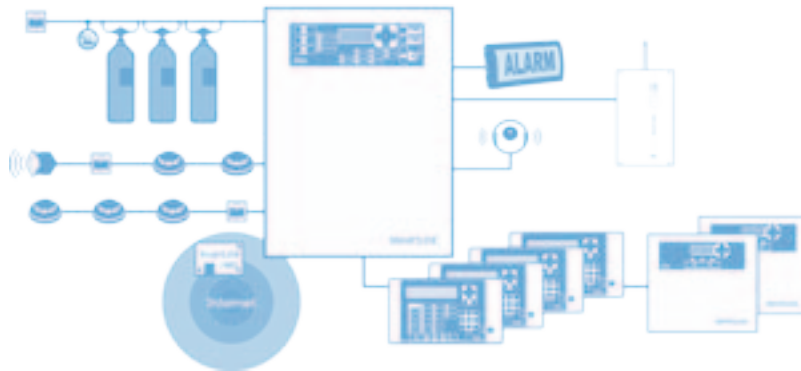
24V POWER OUTPUT
Supplies 24V to the external devices (protected by a self-resetting fuse).

24R RESETTABLE POWER OUTPUT
Supplies 24 V to the external devices. The power to this output switches off for 10 seconds during control panel reset operations. To be used with smoke barriers with power down reset. This output can be configured as 24V continuously present or 24V present with power down in the event of alarm on a group of definable zones (for power to fire door holders).

PROGRAMMABLE RELAY
The control panel has a free changeover relay which, if left at default (as programmed at factory) will activate in the event of alarm, but can be programmed to activate when certain conditions occur.

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E L E C T R O N I C S

Main features

- Conventional fire-detection control panel.
- Available with 2 zones, 4 zones expandable to 20, 4 zones expandable to 36.
- Certified EN54-2/EN54-4.
- Certified EN12094-1 (Fire extinction).
- Supports up to 32 devices per zone.
- Manages SmartLetLoose/ONE Fire Extinction board (Function EN12094-1 Approved).
- 1 supervised alarm output (NAC).
- 1 output for communicator/dialler activation.
- 1 dry-contact alarm output.
- 1 dry-contact fault output.
- 1 ancillary power supply output.
- 1 interruptible power supply output.
- 1 additional terminal for zones configurable as: open-collector output, supervised input, Gas detector input with 4-20mA interface.
- Battery shutdown relay for deep discharge conditions.
- Backlit graphic display for easy management of installer/user interface.
- Navigation keys for easy access to graphic display functions.
- Fast keys (Silence, Reset, Evacuate, Investigate).
- RS485 BUS for repeater panel and power-supply station (SmartLevel) connections.
- Beeper (provides audible signals).
- 8 timers.
- 8 logical equations.
- Automatic balancing of individual detector lines.
- RS232 connector for programming via PC.
- Programming software.
- Easy system programming from the control panel.
- Access key for level 2 functions (EN54 compliant).
- Battery charge optimization (via thermal probe).
- Battery efficiency test.
- Extensive application of SMD reflux technology for higher reliability.
- Metal enclosure.
- Mains power supply 230Vac.
- Switching power supply/battery charger 1.4A @ 27.6Vdc (for SmartLine020) or 4A @ 27.6Vdc (for SmartLine036).
- Battery housing for two 7Ah - 12V batteries (for SmartLine020) or two 17Ah - 12V batteries (for SmartLine036).
- Dimensions (HxWxD for SmartLine020): 325x325x80mm - (HxWxD for SmartLine036): 497x380x87 mm.
- Weight (without batteries): SmartLine020 = 3Kg; SmartLine036 = 6 Kg.

ORDER CODES

SmartLine020-2: Non-expandable 2 zone conventional control panel.
SmartLine020-4: Conventional control panel with 4 zones expandable to 20.
SmartLine036: Conventional control panel with 4 zones expandable to 36.
SmartLine/8Z: 8 zone expansion board.

SmartLAN/485: Ethernet connection board.
SmartLetLoose/ONE: Expansion board.
SmartLetUSee/LCD-Lite: Remote-control repeater panel for SmartLine and SmartLight control panels.
SmartLeague: Programming and management software.
Link232F9F9: RS232 cable link between PC and INIM devices.

REFER TO

ITD002 - Iris Detectors Wiring Diagram.
ITI004 - Enea and Iris Detectors Installation.
ITD022 - BDH100 to SmartLine.

ITD027 - BDH100 Multi to SmartLine.
ITD028 - ING55 4_20mA.