



The advantages of **ILIA**

- Clearly the most important thing of all is the undoubted quality of this detector which is a completely new addition to the **SETRONIC Verona** product range.
- Both versions of the **ILIA** detector, (Transmitter-Receiver or Reflection system), are high sensitivity models and employ an infrared modulation smoke and heat detection system, while the degree to which the beam may be obscured is programmable.
- The Control Unit ensures that very precise calibration and maintenance work can be carried out on the individual detectors.
- The Controller allow a precise care in all the operation of setting and maintenance of the single detectors. The **DUST** version is able to manage in the best way the trouble generated by the production of intense steam, dust or aerosol in very hazard environment.
- The fact that the signals from up to 8 different detectors, even of different types, can be concentrated at a single point, means that it is easy to view and display all signal transmission on site or remotely to the control panel.
- **ILIA** ensures that only mechanical fastening and alignment work has to be carried out above ground while calibration and testing of equipment can be safely and easily conducted at ground level.
- Produces cabling time savings as all connections use the serial bus RS485. The cost of cables is greatly reduced by the use of single line.
- **ILIA** moreover makes it possible to carry out connections in a closed loop to ensure that any cable cut or short circuit will not jeopardise correct working of one or a group of line detectors, improving the overall security of the system.
- **ILIA** needs no mechanical assistance for its long term stability; the possibility of supporting a wide angular misalignment range means that no problems will ensue from settling of structures to which the detectors are affixed.
- **ILIA** has a certificated IP65 protection rating by notified body, for all of its components, which means that it can be used in any type of industrial installation and will remain completely reliable over the long term.
- **ILIA** has a series of internal diaphragms that can be used where problems arise in the protected environment, for example the presence of direct sunlight or awkward reflections or flare; the diaphragm permits short distance adjustments or, in the case of the Transmitter-Receiver version, to have the beam pass through narrow spaces or in any case to limit its size. There are 6 preset diaphragm positions.
- **Optics:** the double transmitter ensures complete signal stability over time and is backed up by precision optics that are exclusively patented by **SETRONIC Verona**.
- **Double local control:** signalling of events is displayed both on the detector itself and on the control unit, as well also as on the rear lit LED display which shows an event is currently taking place.
- **Access:** the control unit is password-protected to ensure the system cannot be tampered with.

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ILIA High sensitivity line detectors

Mod. **ERHS0712**

The system is made up of the following components:
Receiver Unit (Rx) - Transmitter Unit (Tx)
Need of Control Unit (CSRLS)

Mod. **ERRHS0712**

The system is made up of the following components:
Transmitter-Receiver Unit (TRX) - Reflection Unit (Ref)
Need of Control Unit (CSRLS)

Mod. **CSRLS** Control Unit

From 2 to 8 units (even of different types)

General characteristics

Detector whose design, technology, style and manufacture are **made in Italy**

- Suitable for use in all industrial and civil premises
- Extremely easy to install and program
- Very inexpensive to assemble, wire up and maintain
- The detector can be installed horizontally or vertically and can work at any angle
- The integrated diaphragm permits a range of adjustments

Control Unit for the programming, calibration and performing of remote tests on line detectors, with the following possibilities:

- Basic configuration for two line detectors, even of different types
- Expansion board for connection from 2 to 8 detectors and line loop closure (optional)
- On site installation at reachable height
- Alarm and fault outputs can be programmed for each individual detector
- Operational access to the program keyboard is protected by password
- Control Unit and/or Control Panel reset facility

- * **DUST** version of the Controller, available on request, is able to manage in the best way the trouble generated by the production of intense steam, dust or aerosol in very hazard environment

Base can also be installed separately from the detector for pre-wiring

- Plug-in base to detector connection
- Back up board to ensure continued working even after short circuit

Key special key for alignment, diaphragm adjustment and opening and closing of the base and of Control Unit

Product features

- Standard EN 54/12
- Protection degree IP65
- RoHS compatible
- Thermoplastic PPE + PS case with High Impact resistant
- Complete directional stability over time
- Operating distance
Mod. ERHS0712 10 to 200 meters
Mod. ERRHS0712 10 to 150 meters
- Connections to 4 serial line conductors RS485
- Sensitivity adjustable and selectable over a wide range, using the control unit CSRLS
- Automatic threshold compensation
- Test alarm and fault function
- Maintenance request
- Automatic RESET of detector after break in infrared beam
- Fault output relay that can be delayed up to 90 seconds
- Self-tester for RS485 communication
- Power supply - 12-24 V dc auto select
- Angle misalignment:

Mod. ERHS0712 $\pm 1^\circ$
Mod. ERRHS0712 $\pm 1^\circ$ for TRX Unit
 $\pm 5^\circ$ for REF Unit

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