ILIA

mod. ERHS0712

HIGH SENSITIVITY LINE DETECTOR

General characteristics

Detector whose design, technology, style and manufacture are **all Italian**

- 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

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

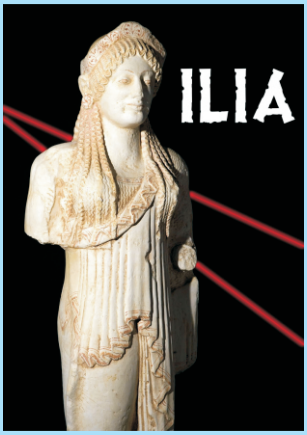
Key special key for alignment, diaphragm adjustment and opening and closing of the base and of Control Unit

Product features

✪ The system is made up of the following components

- *Receiver (Rx)*
- *Transmitter (Tx)*
- *Control Unit (CSRLS)*

- ✧ Standard EN 54/12
- ✧ Protection degree IP65
- ✧ RoHS compatible
- ✧ Thermoplastic PPE + PS case with *High Impact* resistant
- ✧ Complete directional stability over time
- ✧ Operating distance 10 to 200 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 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



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TECHNICAL CHARACTERISTICS

mod. ERHS0712

Current absorption figures are total for ILIA (Tx and Rx) and CSRLS Control Unit

Control Unit and 1 detector connected		
Power supply	Stand By (mA)	Typical (mA) allarm or fault relay
12V	98	100
24V	48	50

Control Unit and 8 detectors connected		
Power supply	Stand By (mA)	Typical (mA) allarm or fault relay
12V	502	512
24V	261	270

ILIA Tx/Rx MOD. ERHS0712

Operating temperature	-20°/+65° C
Storage temperature	-20°/+70° C
Electromagnetic disturbance	EMC test up to 30 Volt/m
Power supply	12/24 V dc (+/- 20%) without switching
Cable type	minimum section of 0,5 mm² with 4 wires – type CEI 20-22
Maximum cable length	max 1200 m from Control Unit to line detectors (double in loop configuration)
Operating distance	from 10 to 200 metres
Maximum permitted cover	1600 sq metres for detector - according to TS 54-14
Width cover	max 15 metres - according to TS 54-14
Detector/connector protection rating	IP65
Angle misalignment	± 1 degree max for Tx Unit and Rx Unit
RAL Colour	5004

CONTROL UNIT MOD. CSRLS

Operating temperature	-20°/+65° C
Storage temperature	-20°/+70° C
Power supply	12/24 V dc (+/- 20%).
Maximum cable legth	Max 1000 m with 1 sq mm cable – Type CEI 20-22
	to Control Panel
Cable section per output	max 0,5 sq mm
Connectable detectors	1 to 8
Control Unit protection rating	IP65
Connector protection rating	IP65

WEIGHT (in kilos)

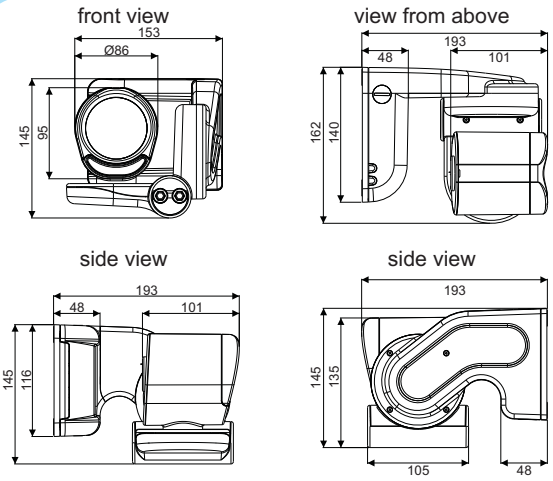
Tx Unit	0,735
Rx Unit	0,775
Control Unit	0,375
Basic kit	**1,885**

MATERIALS

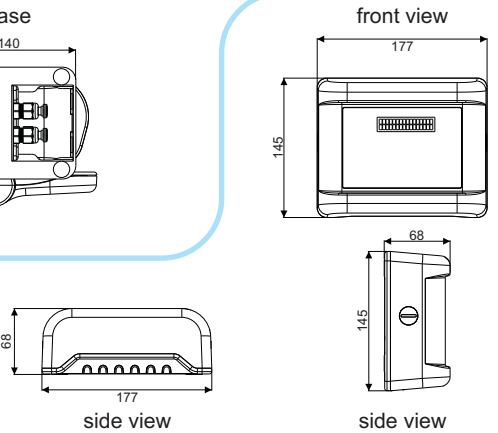
CASE

Tx Unit	PPE+PS HI
Rx Unit	PPE+PS HI
Control Unit	PS HI

ILIA ERHS0712 (mm)



CONTROL UNIT (mm)



CERTIFICATIONS

EN54/12 CE

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