ILIA

mod. ERHS0712-PRO

HIGH SENSITIVITY LINE DETECTOR

CONTROL UNIT

TX UNIT

KEY

RX UNIT

General characteristics

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

- ➢ Use in harsh industrial environments where they are always present dust, vapors and aerosols
- ➢ 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 wide range of adjustments
- ➢ To be used only in combination with CSRLS-PRO

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

- ➢ Configuration with mandatory use of the expansion card (SMLS) for the connection from 1 to 5 detectors (with pre-alarm output), or from 1 to 8 detectors (without the pre-alarm output) and loop line (optional)
- ➢ Only in combination with ILIA ERHS0712-PRO
- ➢ On site installation at reachable height
- ➢ Prealarm outputs (if enabled), alarm and fault indications separate for each detector
- ➢ Operational access to the program keyboard is protected by password
- ➢ Control Unit and/or Control Panel reset facility
- ➢ The detectors are also available as PRO-L with dustproof extension (assembly not compatible with SOHI)
- ➢ Possibility to mount detectors in protective containers SOHI (ref. technical sheet Mod. SOHI) for environments with aggressive atmospheres or where high pressure jets are used for cleaning (assembly not compatible with PRO-L)

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

- ➢ Plug-in base for 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-PRO)**
  - ➢ **Special key for alignement**
- ✧ Standard EN 54/12 and 54/17
- ✧ Protection degree IP65
- ✧ RoHS compatibility
- ✧ Thermoplastic PPE + PS case with *High Impact* resistant and with self extinguishing material - class V0
- ✧ Complete directional stability over time
- ✧ Operating distance 10 to 200 m
- ✧ Connections by serial line RS485, 4 wires
- ✧ Sensitivity adjustable and selectable over a wide range, using the control unit CSRLS-PRO
- ✧ High immunity threshold to avoid the environmental disturb
- ✧ Automatic threshold compensation
- ✧ Test alarm function
- ✧ Pre-alarm output
- ✧ Maintenance request
- ✧ Automatic reset of detector after break in infrared beam
- ✧ Fault output relay that can be delayed up to 254 seconds
- ✧ Self-tester for RS485 communication
- ✧ Angle misalignment: ± 1 degree max
- ✧ Power supply 24V DC
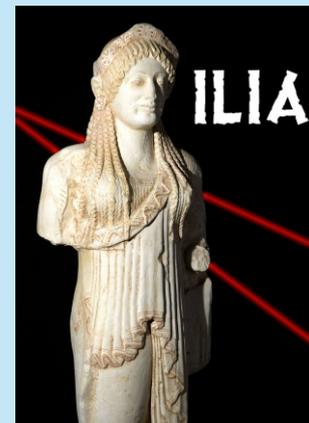
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Current absorption figures are total for ILIA (Tx and Rx) and CSRLS-PRO Control Unit

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

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

ILIA Tx/Rx MOD. **ERHS0712-PRO**

Operating temperature	-20°/+65° C
Storage temperature	-20°/+70° C
Electromagnetic disturbance	EMC test up to 30 Volt/m
Power supply	24V DC ± 20%
Cable type	minimum section of 0,5 mm² with 4 wires
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	9005 jet black, 1013 oyster white

CONTROL UNIT: MOD. **CSRLS-PRO**

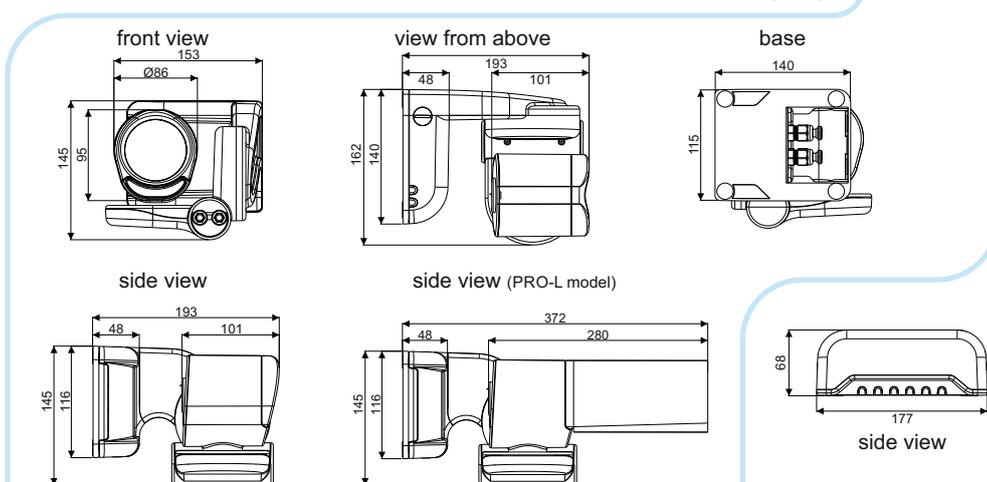|	
Operating temperature	-20°/+65° C
Storage temperature	-20°/+70° C
Power supply	24V DC ± 20%
Maximum cable length	Max 1000 m with 1 sq mm cable to Control Panel
Cable section per output	max 0,5 sq mm
Connectable detectors	1 to 5 (with pre-alarm output), 1 to 8 (without pre-alarm output)
Control Unit/Connector protection rating	IP65
RAL Colour	9005 jet black

WEIGHT (in kilos)

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

MATERIALS

PPE + PS <Noryl>
Flame Class V0
self extinguishing

ILIA ERHS0712-PRO (mm)

CONTROL UNIT (mm)

front view
view from above
base
side view
side view (PRO-L model)
front view
side view
side view

CERTIFICATIONS

VdS
n° G209195

CE
0786-CPR-20925

TP
00982
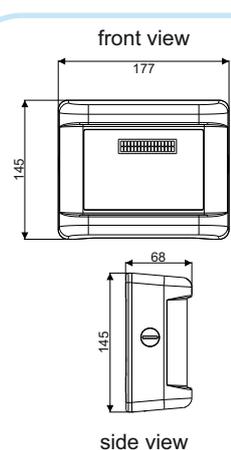
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