

## 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
- Wiring for TRx transmitter-receiver unit only
- 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 (with TRx Unit)

**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

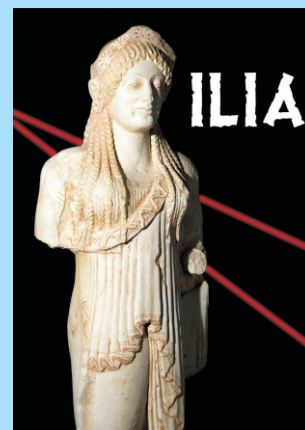
- ✓ **Key** special key for alignment, diaphragm adjustment and opening and closing of the base and of Control Unit

### Product features

- ✦ The system is made up of the following components

- Transmitter- Receiver Unit (TRx)
- Reflection Unit (REF)
- 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 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 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



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

Controller and 1 detector connected		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
12V	87	89
24V	42	45

Controller and 8 detectors connected		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
12V	362	372
24V	190	200

## ILIA TRx MOD. ERRHS0712

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 for switching
Cable type	minimum section of 0,5 mm <sup>2</sup> 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 150 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 protection rating	IP65
Angle misalignment	± 1 degree max for TRx Unit; ± 5 degree max for Ref Unit
RAL Colour	5004, front cover 5005

## CONTROL UNIT MOD. CSRLS

Operating temperature	-20°/+65° C
Storage temperature	-20°/+70° C
Power supply	12/24 V dc (+/- 20%).
Maximum cable length	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)

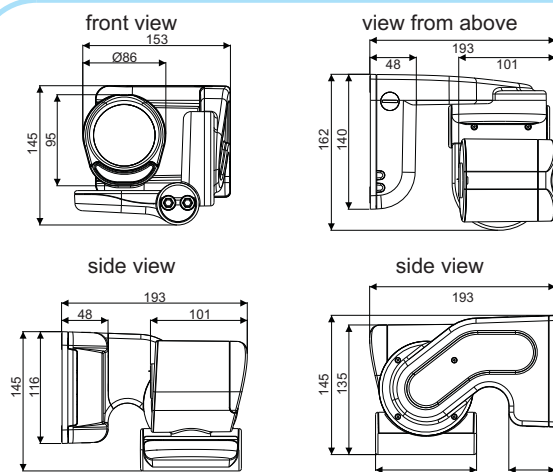
Trx Unit	0,780
Ref Unit	0,770
Control Unit	0,375
Basic kit	1,925

## MATERIALS

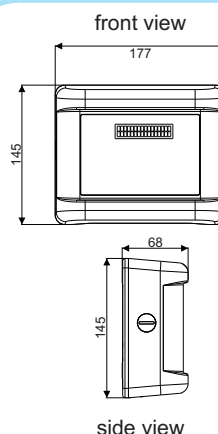
### CASE

TRx Unit	PPE+PS HI
Ref Unit	PPE+PS HI
Control Unit	PS HI

## ILIA ERRHS0712 (mm)



## CONTROL UNIT (mm)



## CERTIFICATIONS

EN54/12



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