

### HIGH SENSITIVITY LINE DETECTOR



#### General characteristics

**Detector** whole 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 wide range of adjustments

**CLI** control and programming unit for linear beam detectors

- Connection from 1 to 8 ILIA detectors, even of different model. Expansion board up to 8 detectors (optional).
- Alarm and fault outputs for each individual detector connected
- General alarm outputs, fault (delayed) and maintenance request
- Double RS485 serial line for open lines or loop, even with one connected detector only
- Double independent power input
- Operational access to the programming keyboard protected by password
- Selectable language menu (ITALIAN / ENGLISH / GERMAN / POLISH)
- Clock and Calendar
- 128x64 pixel graphic display with full event description
- Store events for each single detector, with real-time status analysis and recording range adjustable by menu
- Store event and time logs. Possibility to read logs from PC via USB
- Alarms reset by specific menu and / or control panel via dedicated reset input
- Cabling facilitation
- N° 20 cable inputs from the bottom side
- Predisposition for internal mounting plate and DIN rail
- Field installation at ground level
- Protection rate IP65
- RoHS Compliance
- Full compatibility with ILIA line detectors in Tx-Rx version, produced since May 2009 and with short isolator base

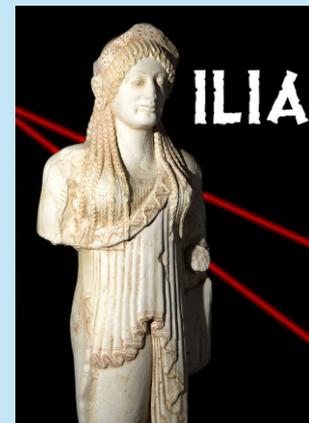
**Base** can also be installed separately from the detector for pre-wiring

- 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 and programming Unit (CLI)
    - Opening/closure allen key
- ❖ Standard EN 54/12, 54/17 and 54/18
- ❖ 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
- ❖ CLI, DUST and FROST version selectable by menu
- ❖ Sensitivity adjustable and selectable over a wide range, using the control and programming unit CLI
- ❖ **High immunity threshold to avoid the environmental disturb** with the **DUST** and **FROST** version of the Controller
- ❖ 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
- ❖ Angle misalignment:  $\pm 1$  degree max
- ❖ Power supply 24V DC



*Current absorption figures are total for ILIA (Tx and Rx) and CLI control and programming unit (all versions)*

<b>CLI and 1 detector connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	100	150

<b>CLI and 8 detectors connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	300	350

**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	24V DC ± 20%
Cable type	minimum section of 0,5 mm <sup>2</sup> 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	max 1600 sq metres for detector - according to National Standard
Width cover	max 15 metres - according to National Standard
Detector/connector protection rating	IP65
Angle misalignment	± 1 degree max for Tx Unit and Rx Unit
RAL Colour	9005 jet black, 1013 oyster white (on request)

**CONTROL AND PROGRAMMING UNIT MOD. CLI**

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	0,5 ÷ 1,5 sq mm
Connectable detectors	1 to 8
Control Unit/Connector protection rating	IP65
RAL Colour	9005 jet black

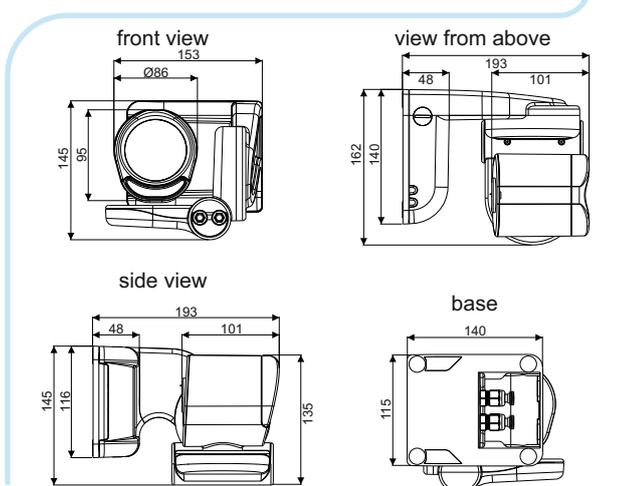
**WEIGHT (in kilos)**

<b>Tx Unit</b>	0,735
<b>Rx Unit</b>	0,775
<b>CLI</b>	2,400
<b>Basic kit</b>	<b>3,910</b>

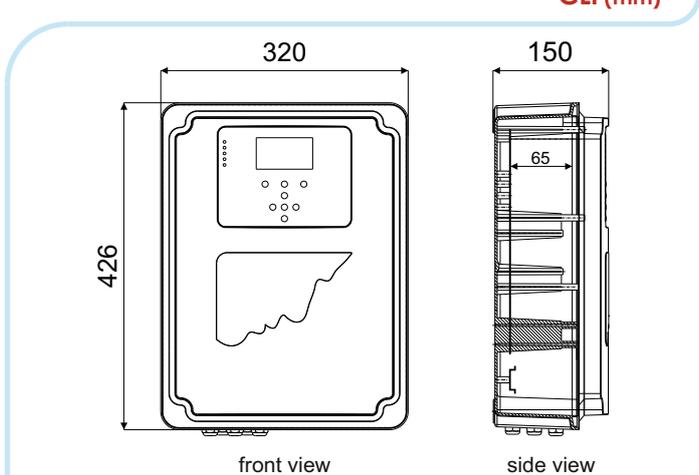
**MATERIALS**

PPE + PS <Noryl>  
Flame Class V0  
self extinguishing

**ILIA ERHS0712 (mm)**



**CLI (mm)**



**CERTIFICATIONS**



n° G209195



0786-CPR-20925



n° 01069



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### HIGH SENSITIVITY LINE DETECTOR



#### General characteristics

**Detector** whole 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 wide range of adjustments

**CLI** control and programming unit for linear beam detectors

- Connection from 1 to 8 ILIA detectors, even of different model. Expansion board up to 8 detectors (optional).
- Alarm and fault outputs for each individual detector connected
- General alarm outputs, fault (delayed) and maintenance request
- Double RS485 serial line for open lines or loop, even with one connected detector only
- Double independent power input
- Operational access to the programming keyboard protected by password
- Selectable language menu (ITALIAN / ENGLISH / GERMAN / POLISH)
- Clock and Calendar
- 128x64 pixel graphic display with full event description
- Store events for each single detector, with real-time status analysis and recording range adjustable by menu
- Store event and time logs. Possibility to read logs from PC via USB
- Alarms reset by specific menu and / or control panel via dedicated reset input
- Cabling facilitation
- N° 20 cable inputs from the bottom side
- Predisposition for internal mounting plate and DIN rail
- Field installation at ground level
- Protection rate IP65
- RoHS Compliance
- Full compatibility with ILIA line detectors in Reflection version, produced since May 2009 and with short isolator base

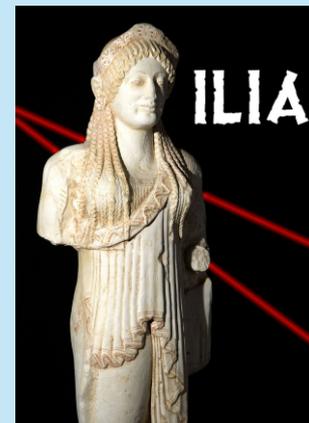
**Base** can also be installed separately from the detector for pre-wiring

- 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 and programming Unit (CLI)
  - Opening/closure allen key
- ✧ Standard EN 54/12, 54/17 and 54/18
- ✧ 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 150 m
- ✧ Connections by serial line RS485, 4 wires
- ✧ CLI, DUST and FROST version selectable by menu
- ✧ Sensitivity adjustable and selectable over a wide range, using the control and programming unit CLI
- ✧ 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
- ✧ Angle misalignment:  $\pm 1$  degree max
- ✧ Power supply 24V DC



*Current absorption figures are total for ILIA (TRx) and CLI control and programming unit (all versions)*

<b>CLI and 1 detector connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	100	150

<b>CLI and 8 detectors connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	300	350

**ILIA TRx MOD. ERHS0712**

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 mm <sup>2</sup> 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	max 1600 sq metres for detector - according to National Standard
Width cover	max 15 metres - according to National Standard
Detector/connector protection rating	IP65
Angle misalignment	± 1 degree max for TRx Unit; ± 5 degree max for Ref Unit
RAL Colour	9005 jet black, front cover 5005 signal blue, 1013 oyster white (on request)

**CONTROL AND PROGRAMMING UNIT MOD. CLI**

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	0,5 ÷ 1,5 sq mm
Connectable detectors	1 to 8
Control Unit/Connector protection rating	IP65
RAL Colour	9005 jet black

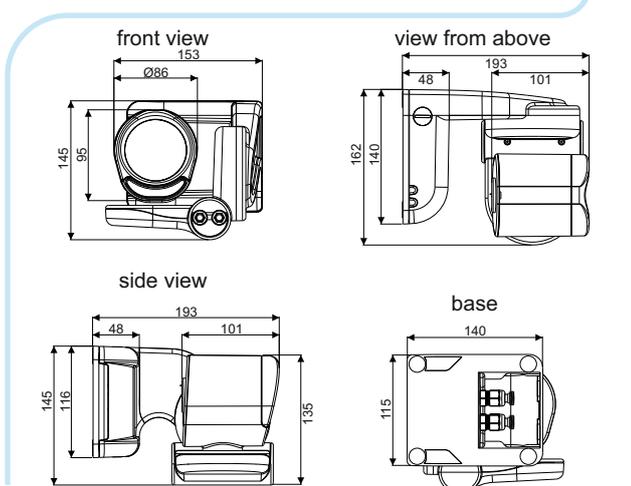
**WEIGHT (in kilos)**

<b>Tx Unit</b>	0,780
<b>Rx Unit</b>	0,770
<b>CLI</b>	2,400
<b>Basic kit</b>	<b>3,950</b>

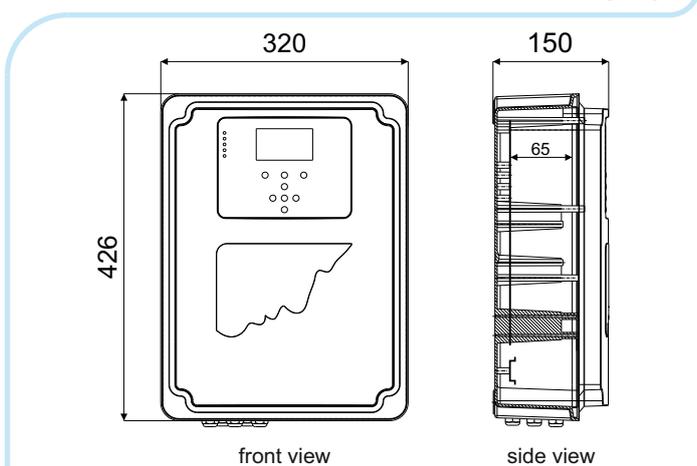
**MATERIALS**

PPE + PS <Noryl>  
Flame Class V0  
self extinguishing

**ILIA ERRHS0712 (mm)**



**CLI (mm)**



**CERTIFICATIONS**



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- 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

**CLI-PRO** control and programming unit for linear beam detectors

- Connection from 1 to 8 ILIA detectors, even of different model. Expansion board up to 8 detectors (optional).
- **Pre-alarm, alarm and fault outputs** distinct for each single detector
- General pre-alarm, alarm, fault (delayed) outputs and maintenance request
- Double RS485 serial line for open lines or loop, even with one connected detector only
- Double independent power input
- Operational access to the programming keyboard protected by password
- Selectable language menu (ITALIAN / ENGLISH / GERMAN / POLISH)
- Clock and Calendar
- 128x64 pixel graphic display with full event description
- Store events for each single detector, with real-time status analysis and recording range adjustable by menu
- Store event and time logs. Possibility to read logs from PC via USB
- Alarms reset by specific menu and / or control panel via dedicated reset input
- Cabling facilitation
- N° 20 cable inputs from the bottom side
- Predisposition for internal mounting plate and DIN rail
- Field installation at ground level
- Protection rate IP65
- RoHS Compliance
- Full compatibility with ILIA line detectors in Tx-Rx version, produced since May 2009 and with short isolator base

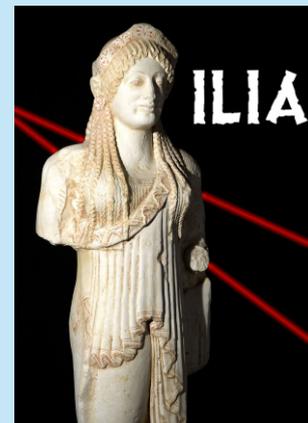
**Base** can also be installed separately from the detector for pre-wiring

- 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 and programming Unit (CLI)
  - Opening/closure allen key
- ✧ Standard EN 54/12, 54/17 and 54/18
- ✧ 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
- ✧ **High immunity thresholds to avoid the environmental disturb** adjustable and selectable by CLI-PRO
- ✧ Automatic threshold compensation
- ✧ Test alarm function
- ✧ Maintenance request timing selectable **for management in critical installation**
- ✧ 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



## TECHNICAL CHARACTERISTICS

mod. **ERHS0712-PRO**

*Current absorption figures are total for ILIA (Tx and Rx) and CLI-PRO control and programming unit (all versions)*

<b>CLI-PRO and 1 detector connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	100	150

<b>CLI-PRO and 8 detectors connected</b>		
Power supply	Stand By (mA)	Typical (mA) alarm or fault relay
<b>24V</b>	300	350

### 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	24V DC ± 20%
Cable type	minimum section of 0,5 mm <sup>2</sup> 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	max 1600 sq metres for detector - according to National Standard
Width cover	max 15 metres - according to National Standard
Detector/connector protection rating	IP65
Angle misalignment	± 1 degree max for Tx Unit and Rx Unit
RAL Colour	9005 jet black, 1013 oyster white (on request)

### CONTROL AND PROGRAMMING UNIT mod. CLI-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	0,5 ÷ 1,5 sq mm
Connectable detectors	1 to 8
Control Unit/Connector protection rating	IP65
RAL Colour	9005 jet black

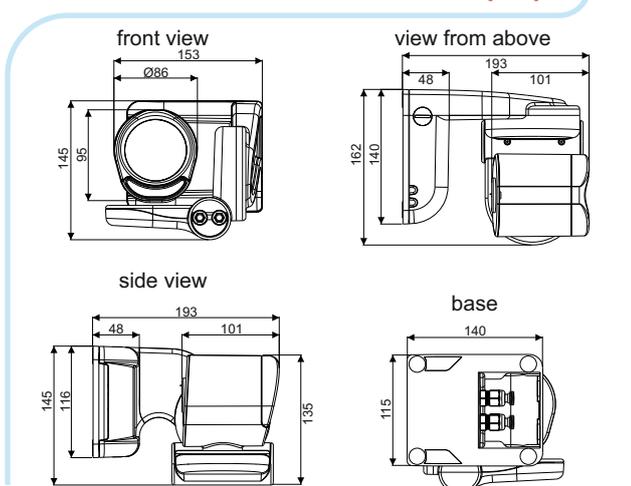
#### WEIGHT (in kilos)

<b>Tx Unit</b>	0,735
<b>Rx Unit</b>	0,775
<b>CLI</b>	2,400
<b>Basic kit</b>	<b>3,910</b>

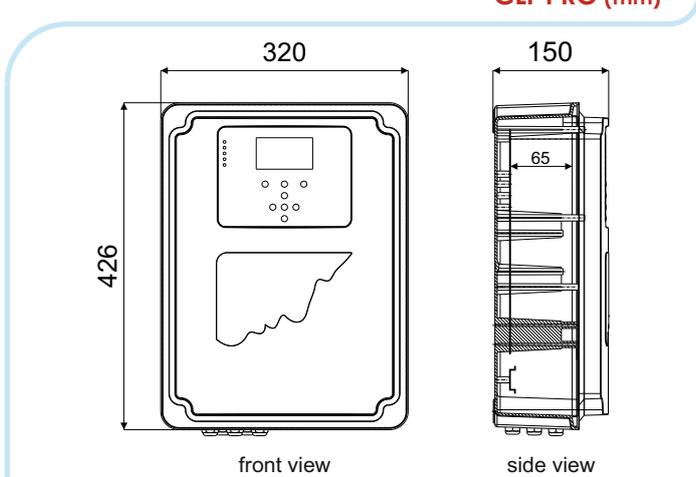
#### MATERIALS

PPE + PS <Noryl>  
Flame Class V0  
self extinguishing

#### ILIA ERHS0712-PRO (mm)



#### CLI-PRO (mm)



#### CERTIFICATIONS



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