ILIA

A T E X

Tx Unit

Rx Unit

KEY

CSRLS-ATEX

The system is composed of the following components:

- **Transmitting unit (Tx) and Receiving unit (Rx) complete with "Avional" aluminum pointing mechanism**
- **Adjustment key**
- **Pair of EXD cable glands**
- **Pair of die-cast aluminum brackets**
- **Controller (CSRLS-ATEX)**

ILIA ATEX is a beam detector that bases its detection on infrared modulation resulting from the initial presence of smoke or fire, in different conditions. It is built in an ATEX container that can be used in classified areas Z1-2-21-22.

ILIA ATEX is particularly suitable for installation in:

- Petrochemical plants
- Laboratories
- Gas storage processing plants
- Plants with materials at risk of explosion
- Classified areas where a fire with smoke and / or fire can occur
- RS485 serial connection with 4 conductors
- High immunity of the thresholds to environmental disturbances
- Automatic compensation of the thresholds
- Self test of the RS485 serial

BASIC CHARACTERISTICS

- Version consisting of Transmitter, Receiver and Controller Unit
- Stand-alone system with non-expandable Controller
- Highly Sensitive Smoke and Fire detection with specific software for use suitable for critical industrial environments where dust, vapors and aerosols are always present.
- Operating distance from 10 to 120 meters with maximum covered area in compliance with individual national standards
- 24 Volt power supply
- Transmitter and Receiver in ATEX certified enclosure with IP66 protection rate
- Extremely simple to install
- The detector programming and the electronic alarm and fault simulation tests can be managed at ground level by means of the Controller
- The units can work both horizontally and vertically

CHARACTERISTICS OF THE PRODUCT

Detector

- In compliance with standard EN54-12
- CE marking according to directive 89/336
- RoHS Compatibility
- Angular misalignment admissible up to ± 1 ° at the maximum distance
- Complete stability of alignment over time
- Sensitivity programmable from the ground in a wide range of possibilities by means of the Controller
- Automatic fault reset in case of temporary blinding

IP65 Controller for programming, calibration and remote test execution for the detector with the following characteristics:

- Installation in a safe area at ground level
- Three independent alarm thresholds: smoke pre-alarm, smoke alarm and fire alarm.
- Independent Pre-Alarm, Alarm and Fault outputs with clean contacts.
- Maintenance request signal with possibility to disable of the output.
- Configurable NO or NC Fault output, with delay selectable from 0 to 4 minutes.
- Reset input
- Protected access to the menu keyboard via customizable PW
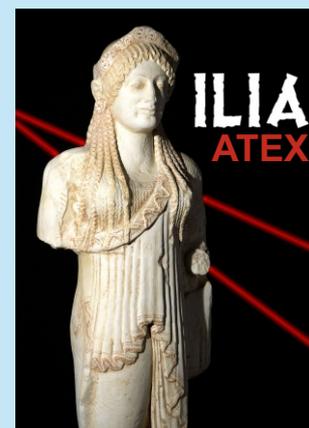
ILIA ATEX

Current absorption ILIA ATEX

Power supply	Stand By (mA)	Typical (mA) allarm or fault relay
24V	48	50

|	
Working temperature	- 30° C / + 65° C
EMC tested	EMC ≦ 10 Volt/m from 1MHz to 2.2 GHz
Power supply	24V DC ± 20%
Maximum cable lengths	minimum section of 0,5 mm² with 4 wires
Installation class	II C temperature - 25° + 85° / 110° C - Z1-2-21-22
Operating distance	from 10 to 120 m
Detector and cable holder	protection rating IP66
Rules of compliance	IEC EN 61508 - (SIL2-SIL3) - TüV certificate no. C-IS-722169456
ATEX enclosure certificate	INERIS 02ATEX0090X / 3 - IECEx INE 14.0013X
ATEX cable holders certificate	INERIS 09ATEX0028X - IECEx INE 13.0017X
Execution	⬡ d IIC T6 Gb - ⬡ tb IIIC T85°C Db IP66
	II 2G ⬡ d / e / ia IIC Gb - II 2D ⬡ tb IIIC Db
Rules of compliance	EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-31

ILIA ATEX (mm)

Side view

193
372
179
164
250

Frontal view

248
210
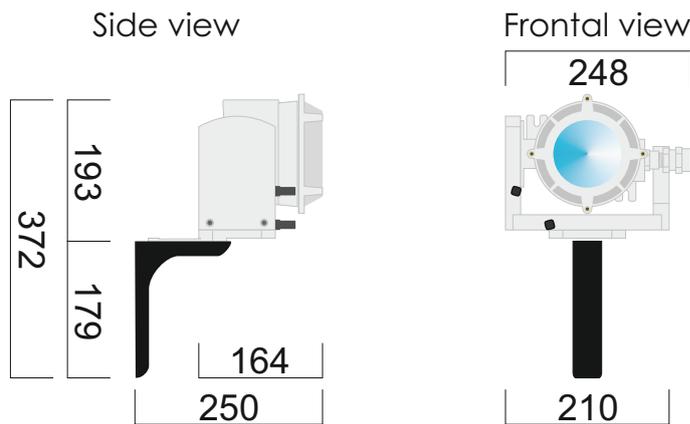
WEIGHT (Kg)

Rx unit	4,500
Tx unit	4,500
Control Unit	0,375
Single cable gland	0,180
Single bracket	0,500
Basic supply kit	10,735

MATERIALS

Bracket	cast coated aluminum
Enclosure	marine grade copper free alluminium
Glass	transparent tempered glass
CSRLS-ATEX	noryl self-extinguishing

CONTROL UNIT - CSRLS-ATEX (mm)

side view

89
177

side view

68
145

front view

177
145
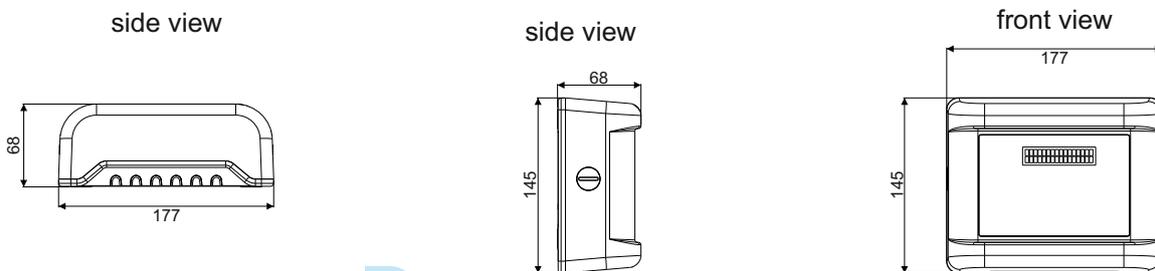
CERTIFICATIONS

ATEX ⬡ II 2 G Ex d IIC T 6 INERIS 02
ATEX 0090X Z1-2-21-22

CE

in compliance with EN 54-12

info@setronicverona.com • ☎ +39 045 8347777

SETRONIC VERONA