SecuriBeam BSD 535 / ILIA and Flame

Product Catalogue 2023

Content

1. Introduction 3

2. System Overview 4

2.1. SecuriBeam ILIA 4

3. Beam Detector BSD 5

3.1. SecuriBeam BSD 535 5
3.2. Accessories for BSD 6

4. Beam Detector ILIA 8

4.1. SecuriBeam ILIA 8
4.2. SecuriBeam ILIA Pro 11
4.3. Accessories for ILIA 13

1. Introduction

Beam Smoke Detector
Beam smoke detectors consist either of a transmitter and a receiver mounted on opposite walls (ILIA, G100 systems) or a transmitter/receiver unit and a reflector mounted on the opposite wall (BSD system). The infrared light beam from the transmitter is sent to the receiver or bounced back off a reflector.

Applications
The linear nature of a beam detector means that SecuriBeam can be deployed wherever conventional point detectors cannot be used due to structural issues - or when such detectors would not perform well. Examples of such applications:

- Large warehouses and production halls
- Covered inner courtyards (atriums)
- Reception halls
- Warehouses
- Attics in churches
- Cinemas, theatres

Production
All Securiton fire alarm systems, system components and detectors are developed and manufactured in Europe and in compliance with the most recent European standards, as well as representing the cutting edge of technology based upon the most up-to-date scientific knowledge.

Product
The descriptions and technical data included in this catalogue are up-to-date at the time of release. We reserve the right to make alterations to them, particularly where justified by technological advancements. The illustrated products may also differ visually from the products supplied as a result of continuous further development of products.
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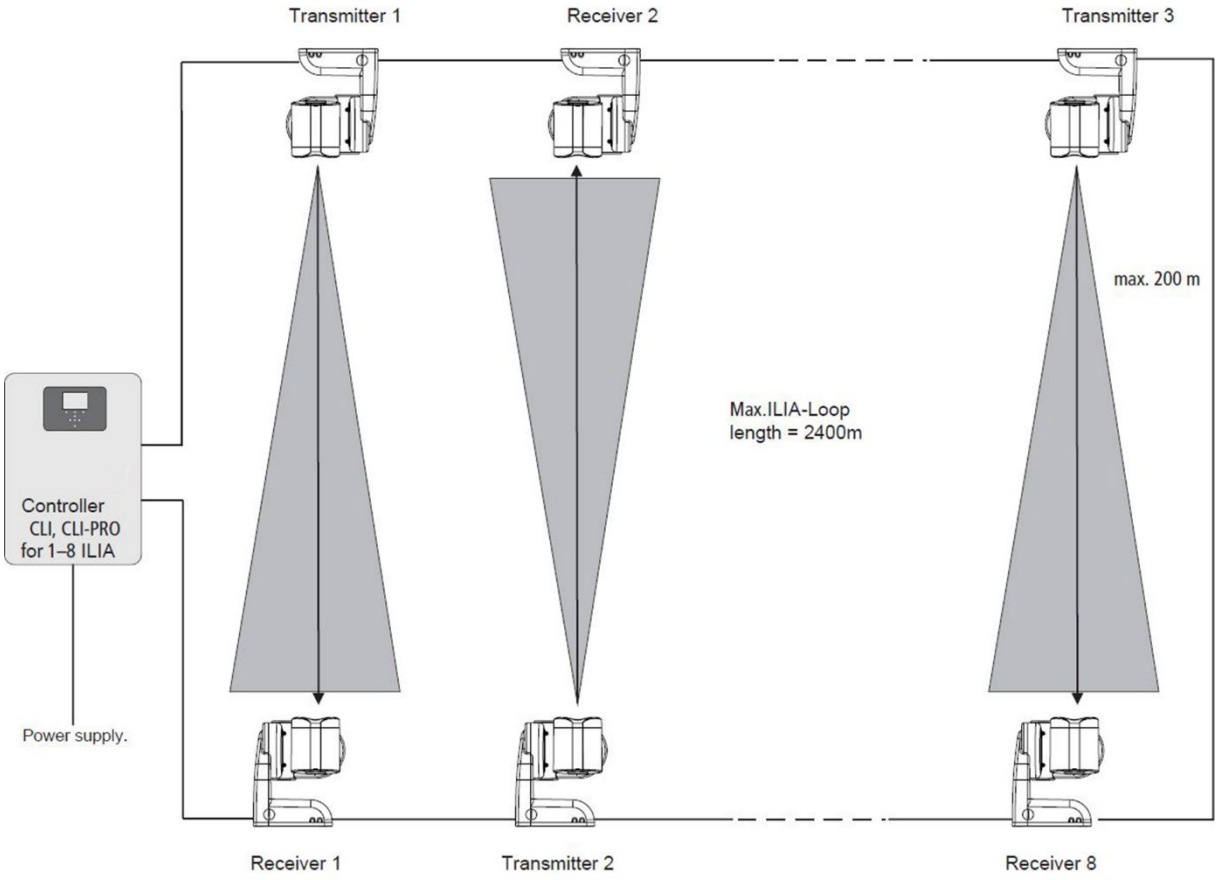
2. System Overview

2.1. SecuriBeam ILIA



The illustrated components are examples and can be combined within the scope of the technical possibilities. The technical documentation, installation instructions and regional standards must be observed.

3. Beam Detector BSD

3.1. SecuriBeam BSD 535

Beam Smoke Detector incl. 1 BRE 535

BSD 535 **11-3000006-01-01**

The Beam Detector BSD 535 including one reflector BRE 535 is particularly suited for indoor smoke detection in industrial sheds - palletised and traditional warehouses, garages, supermarkets, mega stores, cinemas, theatres, conference rooms, trade exhibition centres, public buildings with large flows of people in general and any other large civil and industrial spaces of any shape.
Operating Distance: 3 - 100 m

Operating voltage:	12 VDC – 30 VDC
Protection class detector:	IP31
Protection class optical block:	IP51
Operating temperature:	-10°C to +55°C
Weight:	1000 g
Dimensions (HxWxD):	170 x 150 x 160 mm
Color:	traffic white (RAL 9016)

Approvals

VdS-Approval:	G 210082
Declaration of Performance (DoP):	CPR-11-19-113

3.2. Accessories for BSD

Beam detector Reset Unit

BRU 535 **11-3000005-01-01**

The BRU-535 is a reset unit, with which the BDS 535 can be local deactivated.
The BRU 535 can be connected to the BRC 535

Protection class:	IP40
Weight:	110 g
Dimensions (HxWxD):	90,5 x 90,5 x 40,5 mm
Color:	light grey

Beam detector Remote Control

BRC 535 **11-3000002-01-01**

The BRC 535 is an aid tool for the installation, start up and maintenance of the Securiton linear smoke detector, version BSD 535 and up.

Weight of basic version:	465 g
Dimensions (HxWxD):	173 x 110 x 33 mm
Color:	light grey

Beam detector Reflector

BRP 535 **11-3000004-01-01**

The reflector sun-shield protects the system against unwanted incident light radiation from corners more than 40° to the optical axis (Vertical to the reflecting surface) of the reflector.
Two grid screens can be set on top of each other. Then the system is protected against unwanted incident light radiation up to 20° to the optical axis of the reflector.

Weight of basic version:	80 g
Dimensions (HxWxD):	102 x 102 x 40 mm
Color:	light grey

Beam detector Articulated Bracket

BAB 535 **11-3000001-01-01**

Articulated Bracket if a 90° installation on the wall is not possible.
Wall mounting bracket for BSD Beam detector.

Weight:	995 g
Dimensions (HxWxD):	166 x 130 x 57 mm

BSD 535 Accessories

Beam Detector Reflector

	Beam detector Reflector Extension for BSD 535	BRE 535-1	11-3000003-01-01
	Beam detector Reflector Extension for BSD 535 delivery unit: 3 pcs	BRE 535-3	11-3000003-03-01

4. Beam Detector ILIA

4.1. SecuriBeam ILIA

Linear smoke detector ILIA T/R

ERHS0712	black	**11-3000007-01-01**
ERHS0712-UL	UL-Listed	**11-3000019-01-01**
ERHS0712-1013	white	**11-3000008-01-01**

The transmitter / receiver system ILIA T/R is particularly suited for indoor smoke and fire detection. Thanks to the linear design with transmitter and receiver, it may be used wherever structural situations prevent the installation of conventional point detectors or where the latter can no longer guarantee optimal protection.

- Evaluation: Smoke / Fire
- Operating Distance:10 - 200 m

Operating voltage:	9,6 to 32 VDC
Power consumption:	31 to 177 mA
Protection class detector:	IP65
Operating temperature:	-20°C to + 65°C
Weight:	770 g
Dimensions (HxWxD):	162 x 145 x 193 mm
Color ERHS0712:	black blue (RAL 5004)
Color ERHS0712-1013:	oyster white (RAL 1013)

Approvals

VdS-Approval:	G 209195
UL-Approval:	S 24951
Declaration of Performance (DoP):	0786-CPR-21757

Control unit for 2 ILIA

CSRLS-2 **11-3000011-01-01**

CSRLS-2-UL UL-Listed **11-3000020-01-01**

Control unit for 2 x ILIA T/R systems for stub connection. All adjustment, testing and maintenance work can be simply and reliably performed on the easily accessible control unit.

Operating voltage:	9,6 to 32 VDC
Protection class:	IP65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	375 g
Dimensions (HxWxD):	145 x 177 x 68 mm
Colour:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195
UL-Approval:	S 24951

Extension module to CSRLS, 6 ILIA

SMLS **11-3000012-01-01**

SMLS-UL UL-Listed **11-3000021-01-01**

ERHS0712, ERHS0712-1013:
Control unit extension board for CSRLS-2 control unit to add **six** additional ILIA detectors.

ERHS0712-PRO:
Control unit extension board for CSRLS-PRO control unit to add **six** additional ILIA Pro detectors. When pre-signals are activated only **three** additional ILIA PRO T/R can be used.

Weight:	50 g
Dimensions (HxWxD):	120 x 55 x 35 mm

Beam Detector ILIA

Control Unit for 8 ILIA, CLI

CLI **11-3000013-01-01**

Control Unit for 8 ILIA detectors as stub or ring connection.
Optional:

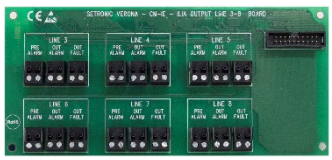
- Relay card CM-IB: General alarm, General fault, General maintenance, detail info for detector 1 to 2 (alarm, fault)
- Relay card CM-IE: detail info for detector 3 to 8 (alarm, fault)

Operating voltage:	24 VDC
Protection class detector:	IP65
Operating temperature:	-20°C to + 65°C
Weight:	2400 g
Dimensions (HxWxD):	426 x 320 x 150 mm
Color:	grey / jet black (RAL 9005)

Approvals

VdS-Approval:	G 209195

Relay Board



CM-IB **11-3000014-01-01**

CM-IE **11-3000015-01-01**

Relay card CM-IB: General pre alarm, General alarm, General fault, General maintenance, detail info for detector 1 to 2 (pre alarm, alarm, fault).
Relay card CM-IE: detail info for detector 3 to 8 (pre alarm, alarm, fault)
To be mounted in Control Unit CLI.

4.2. SecuriBeam ILIA Pro

Linear smoke detector ILIA PRO T/R

ERHS0712-PRO **11-3000016-01-01**

The transmitter / receiver system ILIA PRO T/R is particularly suited for indoor smoke and fire detection in extremely dusty environments
Technically the PRO Version has additionally features compared to the standard ILIA BEAM detector:
- Pre Signals
- Additional alarm levels
- Dust reject lens
- Event memory

Operating voltage:	9,6 VDC - 32 VDC
Power consumption:	31 to 177 mA
Protection class detector:	IP65
Operating temperature:	-20°C to +65°C
Operating Distance:	10 - 200 m
Weight of basic version:	770 g
Dimensions (HxWxD):	162 x 145 x 193 mm
Color:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195
Declaration of Performance (DoP):	0786-CPR-21757

Control unit for 2 ILIA PRO

CSRLS-PRO **11-3000017-01-01**

Control unit for 2 x ILIA PRO T/R systems for stub connection, in extremely dusty environments. All adjustment, testing and maintenance work can be simply and reliably performed on the easily accessible control unit. The control unit CSRLS-PRO is design for extremely dusty environments

Operating voltage:	9,6 to 32 VDC
Protection class:	IP65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	375 g
Dimensions (HxWxD):	145 x 177 x 68 mm
Color:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195

Configuration hint:
The SMLS control unit extension board must be used to add additional ILIA PRO detectors.

Control Unit f. 8 ILIA PRO, CLI-PRO

CLI-PRO **11-3000018-01-01**

Control Unit for 8 ILIA-PRO detectors as stub or ring connection.
Optional:

- Relay card CM-IB: General alarm, General fault, General maintenance, detail info for detector 1 to 2 (alarm, fault)
- Relay card CM-IE: detail info for detector 3 to 8 (alarm, fault)

Operating Voltage:	24VDC
Protection class:	IP 65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	2400g
Dimensions (HxWxD):	426 x 320 x 150 mm
Color:	grey / jet black (RAL 9005)

Approvals

VdS-Approval:	G 209195

4.3. Accessories for ILIA

Accessories and Spare Parts for ILIA			
Replacement parts for ILIA			
	Replacement base for ILIA, without print.	SM17	11-3000043-01-01
	Electronic print for ILIA spare base SM17.	SSMP-C	11-3000045-01-01
Replacement parts for ILIA UL			
	Replacement transmitter ILIA-UL	ERHS0712-Tx-UL	11-3000062-01-01
	Replacement receiver ILIA-UL	ERHS0712-Rx-UL	11-3000061-01-01
	Replacement main board for CSRLS-UL	SMLD-UL	11-3000060-01-01
Replacement parts for CLI			
	Replacement mainboard to CLI, CPU	CPU	11-3000041-01-01
	Replacement mainboard to CLI-PRO, CPU-PRO	CPU-PRO	11-3000042-01-01
Mounting accessories			
	Protective basket for ILIA	GDP	11-3000028-01-01
	Adjustable wall/ceiling holder for ILIA T/R	SACA-G	11-3000025-01-01
Test equipment			
	Test filter to Beam Smoke Det.	STF4	11-3000039-01-01

Protective Housing for ILIA

SOHI **11-3000026-01-01**

Protective case for extremely dusty environments.
Additional security for permanent acid concentrations in the air or aggressive dust concentrations.
Protection against misalignment during cleaning and Disinfection.

Protection class:	IP65
Weight of basic version:	2100g
Dimensions (HxWxD):	303 x 303 x 260 mm

Accessories		
Pane for protective housing SOHI	FAPO	11-3000027-01-01

Air shield for ILIA SOHI

ASIS **11-3000049-01-02**

SOHI can be expanded for dusty environment with the air shield to avoid dust deposit in front of the SOHI pane.