SecuriHeat d-LIST

Product Catalogue 2023

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1. Introduction

SecuriHeat d-LIST heat detectors, for performance where other systems fail.
Dust, heat, smoke, exhaust fumes and other interference factors have a significant impact on detecting fires when using conventional fire detectors. However, it is exactly under such difficult conditions that the fire risk is at its greatest. It is vital to ensure quick and reliable detection –be it in tunnels, industrial facilities, power plants or car parks.
With the SecuriHeat d-LIST line-type heat detectors, Securiton provides systems that can enable the rapid localisation of a fire – even when used in harsh, aggressive environments.

Safety in industrial facilities – SecuriHeat d-LIST.
The SecuriHeat d-LIST line-type heat detector with SEC 15 sensor cable is ideally suited to applications with small monitoring areas. Two sensor cables with a maximum length of 350 metres each can be connected to the SCU 835 (sensor control unit) and put into operation at the touch of a button – without specialist tools or knowledge. This monitoring system, with a maximum of two sets of 100 sensors, can be universally integrated into wider fire alarm systems. Several SCU 835 units can be networked easily for monitoring larger areas. The d-LIST system can also be expanded with individual temperature sensors in metal housings for monitoring critical areas such as drive units on belt conveyors and escalators, for example.

Outstanding flexibility – because every object needs individual protection.
The spacing between sensors can be freely selected, and it is even possible to combine different sensor spacing distances. You can see where the sensors are located by the markings on the outer sheathing of the sensor cable. Another highlight (and one that is absolutely unique on the market) is the problem-free branching of the cable harnesses. Individual external sensors in metal housings are available for special applications and can be easily connected to the SecuriHeat d-LIST system. Different sensor cable areas can be connected with one signal cable.

Product
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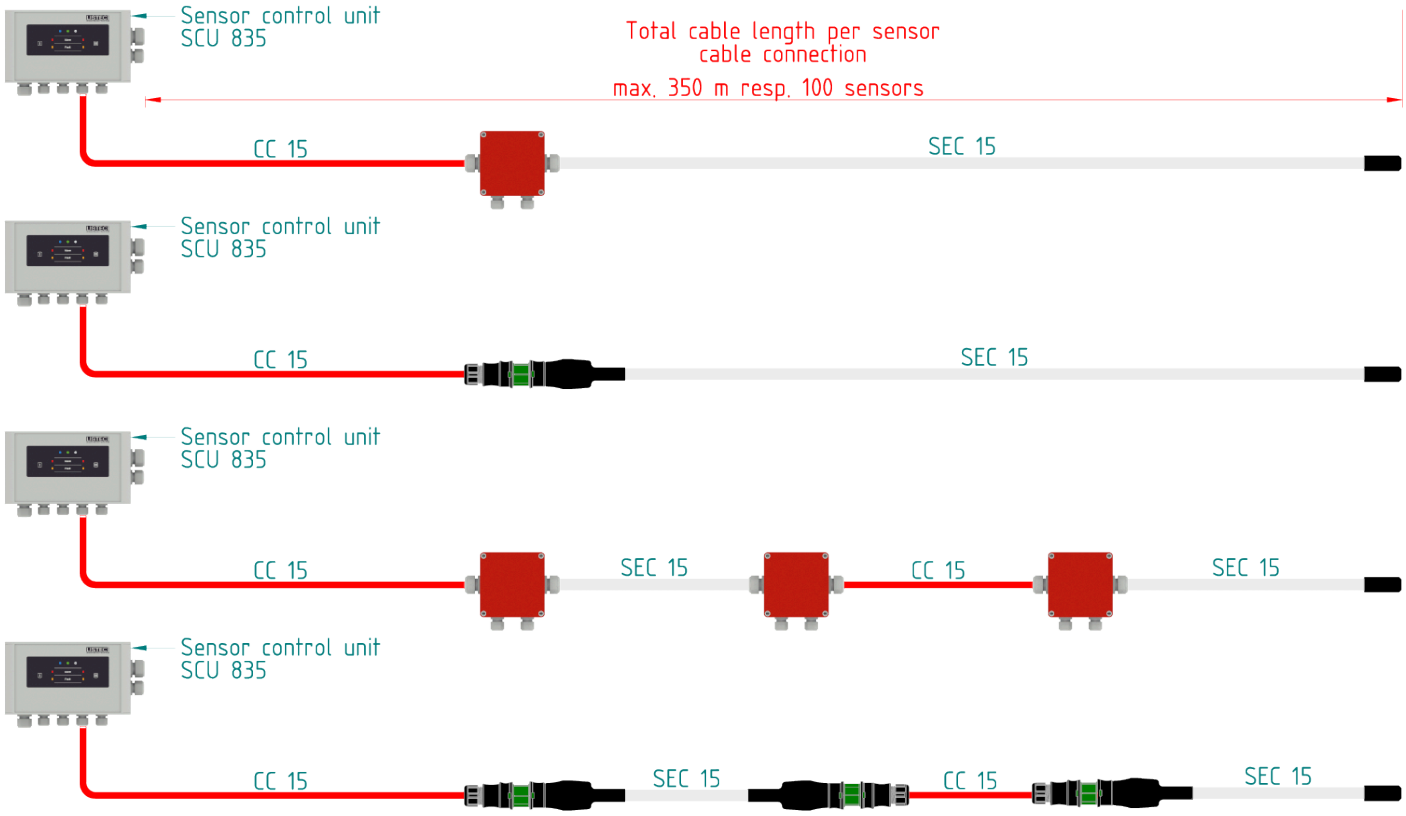
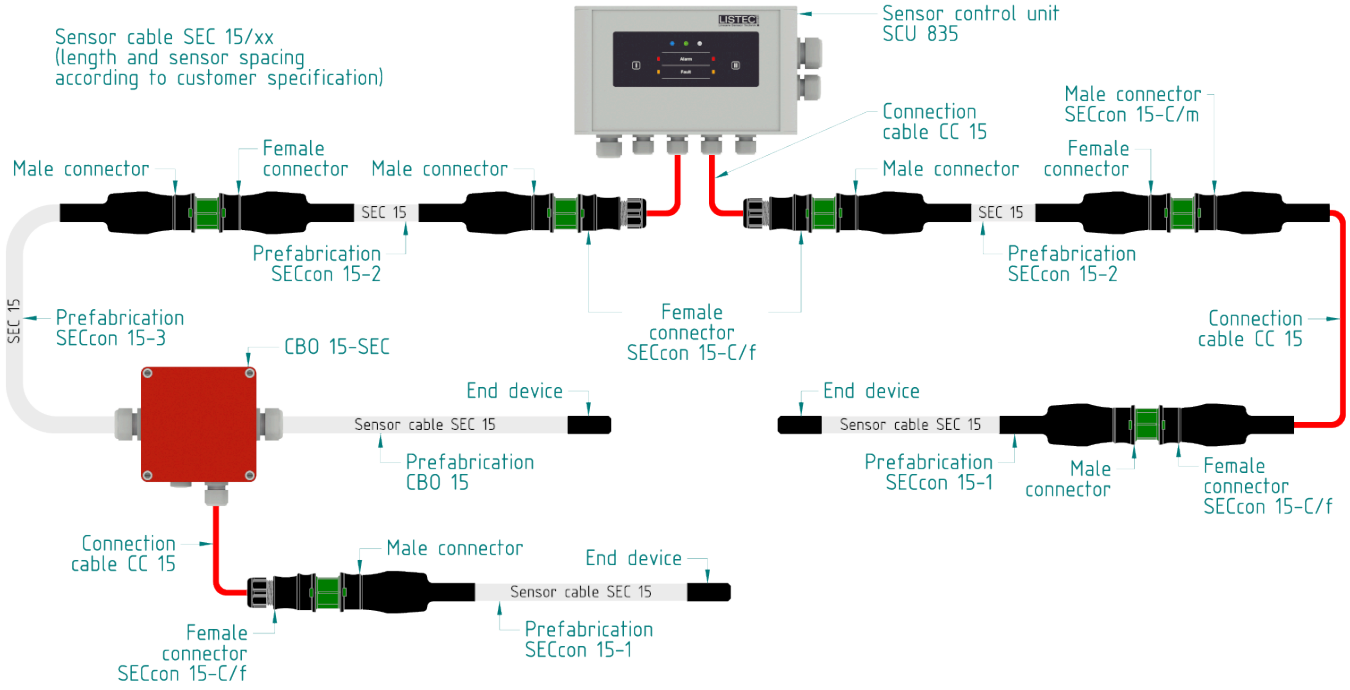
2. System Overview

d-LIST system design

Typical installations of the SCU 835 d-List controller with the SEC15 sensor cable





3. Processor Units

Sensor Control Unit

SCU 835 **62-2001001-04-01**

d-LIST is a temperature measuring system or a resettable linear heat detector according to EN 54-22, based on a sensor cable. Due to its closed cable construction and the high measuring resolution, the system can be used even under the harshest environmental conditions.
A fire alarm is generated if either a given maximum threshold is exceeded, or if an increase in temperature takes place within a certain time (differential evaluation). The two thresholds (set-points) can be set individually for each of the attached sensor cables.
The measurement resolution of 0,1° gives the system a high sensitivity. The tried and tested algorithms used in the evaluation eliminate false alarms due to natural temperature variations.

Operating voltage:	10.5 to 30 VDC
Power consumption:	150 mA
Operating temperature:	-25°C to +70°C
Weight:	SCU835: 1,95 Kg

Dimensions (HxWxD):	289.5 x 177.5 x 91 mm
Material:	aluminium

Approvals

VdS-Approval:	G 221004

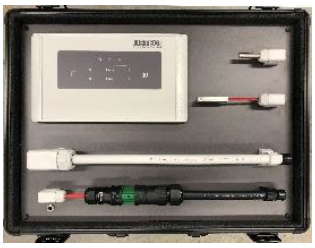
Accessories		
Relaisboard 16 contacts	REL 835	62-4001004-01-02
Accessory bag relais board REL 535	ACCS-AP REL 835	62-4001009-01-01
Connectors for communication ports	AP2 DLCON/SCU835	62-4001023-01-01
Mounting plate BX-OI3	AP BX-OI3	62-4001002-01-01
Mounting plate XLM 35	AP XLM 35	62-4001001-04-01

4. Overview scope of delivery

Ordering article	Included accessory	Description
SCU 835 **62-2001001-04-01**	AG1 DLCON/SCU835 AP1 DLCON/SCU835	Basic delivery
AP2 DLCON/SCU835 **62-4001023-01-01**	---	Optional: Special connector for: LAN, RS232/485 and I/O's
REL 535 **62-4001004-01-02**	---	Optional: Additional 16 relay contacts
ACCS-AP REL 835 **62-4001009-01-01**	---	Accessory bag for REL 535 board with connection cable, mounting material and screws
AP XLM 35 **62-4001001-04-01**	ACCS-AP XLM 35	Optional: Usage of XLM 35 loop module
CBO 15-SEC **62-2001004-01-01**	UCM 15-SEC AG1 CBO 15-SEC	SEC-15 cable connections
CBO 15-ESD **62-2001004-02-01**	UCM 15-ESD AG1 CBO 15-ESD	ESD single sensors connection

5. Demo and Test Equipment

d-LIST Demo Case SCU 835



DemoCase SCU 835 **62-2001017-02-01**

Demo case for the d-LIST system in a transport case with wheels and telescope handle.
Including sensor control unit SCU 835, sensor cable SEC 15 with two sensors, one external sensor ESD-A5-EL-01 and ESD-A5-RL-01 each with 10 built-in d-LIST sensors and Bluetooth adapter.
Optionally, the version DemoPlate SCU835 can be ordered as a prefabricated demo plate. This mounting plate can be installed in a predecessor d-List DCU demo case.

Mains voltage:	100-230VAC
Power consumption:	<500mA
Operating temperature:	0°C to +60°C
Weight of basic version:	8.6 kg
Dimensions (HxWxD):	550 x 400 x 230 mm

Accessories		
d-LIST Demo Plate SCU 835	DemoPlate SCU835	62-4001031-02-01

6. Dongle license and d-List Config

d-LISTconfig Operation	**Limited access** for d-List Config software. Only read functions and the following write functions are possible: - Reset - Set date & time - View maximum and maximum difference temperatures - LED Test - Switching sensors off and on
d-LISTconfig Maintenance	Additional to Operation level: - Save configuration - Clear lists (events & both max. temperatures) - Relay test - Adjust alarm thresholds - Simulation (alarm and fault)
d-LISTconfig Commissioning	Aditional to Maintenance level (Full Access): - Configure - Save configuration, edit offline, load into SCU 835

Dongle order form available on the Securiton Homepage:

http://www.securiton.com

Software		
d-List config Software	GUI d-LISTconfig	62-3201002-01-01

d-List Dongle license		
d-LISTconfig Operation	d-LISTconfig Opera	VE100430
d-LISTconfig Maintenance	d-LISTconfig Maint	VE100431
d-LISTconfig Commissioning	d-LISTconfig Commi	VE100432

Securiton Dongles		
Dongle for Securiton Applications (without license)	ULM-DP	VE100450
Dongle for Securiton Applications (without license) Pack of 5 Dongles	ULM-DP 5	VE100451
Dongle for Securiton Applications (without license) Pack of 10 Dongles	ULM-DP 10	VE100452

7. Cable d-List

Remote Display Unit

SEC 15/01	sensor distance 1m	**62-2000360-00-00**
SEC 15/02	sensor distance 2m	**62-2000367-00-00**
SEC 15/03	sensor distance 3m	**62-2000372-00-00**
SEC 15/04	sensor distance 4m	**62-2000374-00-00**
SEC 15/05	sensor distance 5m	**62-2000376-00-00**
SEC 15/10	sensor distance 10m	**62-2001014-01-01**

The cable is able to measure temperatures from -40°C to +85°C (for short periods +120°C) with a resolution of 0,1° Celsius.
Cable structure:

- Hybrid circuits mounted on a 2 core flat flexible cable
- Filling material with strain relief, which secures the cable in case of fire
- Aluminium shield
- Halogenfree cable sheath; flame retardent and non-corrosive, with sensor marking

Operating temperature:	-40°C to +120°C
Weight:	0,35 kg / m
Sheath material:	HM4 mixture, halogen free, flame retardant
Color:	grey

Approvals

VdS-Approval:	G221004

8. Single Sensor d-List

External Sensor rectangular

ESD-A5-EL-01	1m	**62-2000343-00-00**
ESD-A5-EL-05	5m	**62-2000346-00-00**
ESD-A5-EL-10	10m	**62-2000499-00-00**

Stainless steel sensor A5 for use with the d-LIST-System, whereby all sensors are connected in parallel via standard terminals. These sensors can be used together with SEC15 sensor cable and the control unit SCU835.
Design: rectangular 8 mm

Operating temperature:	-40°C to +150°C
Material:	Stainless steel

External Sensor round

ESD-A5-RL-01	1m	**62-2000347-00-00**
ESD-A5-RL-05	5m	**62-2000350-00-00**
ESD-A5-RL-10	10m	**62-2000498-00-00**

Stainless steel sensor A5 for use with the d-LIST-System, whereby all sensors are connected in parallel via standard terminals. These sensors can be used together with SEC15 sensor cable and the control unit SCU835.
Design: round 8 mm

Operating temperature:	-40°C to +150°C
Material:	Stainless steel

9. Accessories d-List

Mounting Material d-List

Clamps

	Cable clamp for SEC 15 delivery unit: 100 pcs	CLIC 15	62-8000304-00-00
	Pipe clamp for SEC 15 with locking clip	MDC	62-8000344-00-00

Various mounting material

	Stainless steel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Screw Torx	62-8000303-00-00
	Nylon dowel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Dowel	62-8000301-00-00
	Stainless steel cable clamp, grade 1.4571, stainless steel dowel and cable fastener must be ordered separately	MDJ 1.4571	62-8000349-00-00
	Stainless steel dowel grade 1.4571, to mount MDJ 1.4571	Dowel/Nut 1.4571	62-8000414-00-00
	Stainless steel cable clamp, grade 1.4529, stainless steel dowel and cable fastener must be ordered separately.	MDJ 1.4529	62-8000374-00-00
	Stainless steel dowel grade 1.4529, to mount MDJ 1.4529	Dowel/Nut 1.4529	62-8000411-00-00
	Cable fastener for line mounting	FEMC	62-8000384-00-00
	Protection for MDJ clamp and line mounting fastener in the event of a fire	FECT 201-A4	62-8000360-00-00

ATEX Material d-List

For new projects in explosion zones the SEC cable must be labeled in the factory with the ATEX marker labels. Therefore, the SEC sensor cable must be ordered in the pieces needed for the project.

Spare Marker for d-List

	ATEX Marker for sensor cable SEC 15	Label SEC 15 Atex	62-7000002-00-00
	ATEX Marker for external sensor ESD	Label ESD Atex	62-7000003-00-00

Connection Box

CBO 15-SEC

62-2001004-01-01

Connection unit for one or two temperature sensor cable SEC15 including an universal connection module UCM.
If it is not possible to connect the sensor cable directly to the sensor control unit SCU835, the connection cable CC15 can connect sensor control unit and sensor cable via the connection box. In the box the connection cable and the sensor cable are linked together via the connection module UCM. If short transmission lines are linked the universal connection module has the possibility to activate adaptation resistors.

Protection class:	IP66
Operating temperature:	-35°C to +60°C (short period +80°C)
Dimensions (HxWxD):	130 x 130 x 75 mm
Material:	glass-fibre reinforced, polycarbonat

Connection Box

CBO 15-ESD

62-2001004-02-01

Connection unit for up to eight external sensors ESD or four single sensors and one LIST-cable SEC15. The external sensors can be connected to the SEC15 sensor cable bus via the connection box. It is possible to connect up to eight single sensors to the bus or four sensors and a sensor cable. Every connection has an adaption resistance. This can be activated, if needed, for example for short adaptation resistors.

Protection class:	IP66
Operating temperature:	-35°C to +60°C (short period +80°C)
Dimensions (HxWxD):	130 x 130 x 75 mm
Material:	glass-fibre reinforced, polycarbonat

Accessories d-List

Connection Cable

CC 15 **62-8000345-00-00**

LISTEC supply cable 1x2x0.8, shielded, JE-H(ST)H E30, for an SEC 15 sensor cable.
If it is not possible to connect the sensor cable directly to the sensor control unit SCU835, the connection cable CC15 can connect sensor control unit and sensor cable via the connection box.

Operating temperature:	-30°C to +70°C
Sheath material:	HM2 compound, flame retardant
Color:	red

d-List Accessories

Cabels

	Sensor cable with termination cap, CLB2 and shield connector.	SEC 15 fit box	62-3000354-00-00
	Sensor cable pre-fabrication with plug, 3-pin and termination cap.	SECcon 15-1	62-3000351-00-00
	Sensor cable pre-fabricated with plug and socket, 3 pin	SECcon 15-2	62-3000352-00-00
	Coupling with socket, 3-pin	SECcon 15-Cf	62-8000403-00-00
	Coupling with plug, 3 pin	SECcon 15-Cm	62-8000404-00-00

Tools

	LIST crimping tool for 2-and 4-core flat cable connectors	CLCT	62-8000347-00-00
	Cable scissors for SEC sensor cable	Cutter SEC	62-0000427-00-00

Service case

SC 15/20 **62-2000432-00-00**

Service case with tool for repair and connection of sensor cable.

Content:

Article	Quantity
Tool case	1
Manual SCU835/SEC 15	1
LIST-Crimping tool, adjusted	1
Cable cutter	1
Cable knife	1
Cable-stripping tool	1
Selection of 6 screwdrivers	1
Size 3 electronic screwdriver	1
Electronic side cutter	1
Side cutter	1
Multigrippliers	1
Combination pliers	1
Clincher male CLS2	15
Clincher female CLB2	15
Clincher strain relief CLVS	15
Shield connector SEC 15	10
End cap END 15	2
Clamp Clic 15	10
CCM modul SEC 150-A	1
UCM-SEC	1
Sleeve SEC 15	2
Isolating tape	1
Tape to vulcanize	1

10. Spare Parts d-LIST

Accessories and Spare Parts

Repair spare parts

	Main board for SCU SCU 835 For repair only	MB SCU 835	62-4001003-02-03
	Connection module for up to eigth singel sensors ESD	UCM 15-ESD	62-4001005-02-01
	Connection module for up to two sensor cabes SEC 15	UCM 15-SEC	62-4001005-01-01

Various spare parts

	Shield connectors for connecting sensor cables. with ring connector	SCON 15/0	62-4000315-00-00
	Shield connectors for connecting sensor cables. with Pin	SCON 15/1	62-4000316-00-00
	Ribbon cable crimping connector, 2-core, socket delivery unit: 100	CLB 2	62-8000315-00-00
	For locking a CLB clincher with pin plug delivery unit: 100	CLVP	62-8000320-00-00
	End cap for sensor cable SEC 15	END	62-8000503-00-00
	Shrink sleeve with ribbon cable connection, shield connector, plug and socket, and sealing material. For connecting two SEC 15 cables	N15 Repair	62-2000396-00-00

11. Services

SecuriHeat LIST Commissioning

Support Fee

	Commissioning support fee for projects within Europe.	Commission EU	11-5000001-01-01
	Commissioning support fee for projects at Overseas.	Commission OvS	11-5000002-01-01

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