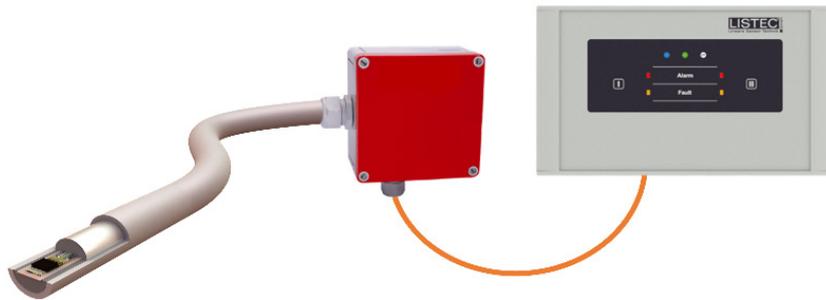




LINEAR HEAT DETECTION – SECURITON

SecuriHeat d-LIST LHD



SEC15 Sensor Cable & SCU835 Sensor Control Unit

DESCRIPTION

The SecuriHeat d-LIST system is an addressable Linear Heat Detector for special applications. It is characterised by its precise detection, high reaction speed, simple installation and commissioning, as well as its maintenance-free design.

The system provides the perfect linear heat detection solution for many applications due to the flexibility with sensor spacing and branches on the cable as well as the ability to add individual external heat sensors. With up to 700 metres of SEC15 sensor cable on a single SCU835 Sensor Control Unit, the system provides a cost-effective early warning temperature analysis of the protected application.

DESIGN AND FUNCTION

The SecuriHeat d-LIST system acquires data from numerous temperature sensors that are integrated in the SEC15 sensor cable at regular intervals. The system measures both the actual heat temperature of the surroundings (convective heat) as well as a fraction of the infrared irradiation (radiant heat). Thanks to these properties and a polling cycle of 10 seconds, the response time of the Linear Heat Detector is extremely short. The SCU835 sensor terminal processor evaluates the measurement data and determines instances of alarms or pre-signals based on the specific programming. The SCU835 can be operated and configured using the d-LISTconfig graphical user interface.

Connection is possible via RS485, RS232, USB, as well as the Ethernet interface. All the data present in the devices is visualised and can be compiled in a report.

Ordering Information

Product Code	Description
ST-DLIST-SCU835	Sensor Control Unit SCU 835
ST-DLIST-CC15	Connection Cable CC 15
ST-DLIST-CBO5SEC	Connection Box CBO 5-SEC
ST-DLIST-SCON15-1	Shield Connector SCON 15/1
ST-DLIST-SEC1501	Sensor Cable SEC 15/01
ST-DLIST-SEC1502	Sensor Cable SEC 15/02
ST-DLIST-SEC1503	Sensor Cable SEC 15/03
ST-DLIST-SEC1504	Sensor Cable SEC 15/04
ST-DLIST-SEC1505	Sensor Cable SEC 15/05
ST-DLIST-CLIC100	Cable Clamp CLIC 15 (100pcs)
ST-DLIST-CLB2	Flat Cable Connector CLB 2 (qty 100)
ST-DLIST-CLCT	Crimping Tool CLCT
ST-DLIST-END	End Device END
ST-DLIST-CBO5ESD	Connection Box CBO 5-ESD -T
ST-DLIST-ESDEL10	External Sensor Rectangular, 10m, ESD-A5-EL-10
ST-DLIST-ESDRL10	External Sensor Round, 10m, ESD-A5-RL-10
ST-DLIST-DONGLE	Dongle (USB) for LIST with Keyring

FEATURES

- EN54 approved (Class: A1N / A2N/ BN / C)
- Atex Zone 2 and 22 approved
- Cable length up 700m with 200 sensors (2 x 350m cables with up 100 sensors on each cable)
- Sensor Spacing in cable 1, 2, 3, 4, 5, 10 m or to your specification
- Temperature measurement at 10s intervals with 0.1 °C resolution
- Sensor cable can be branched and external sensors can be added
- Maintenance friendly
- Operates in extreme conditions and high EMI Immunity
- Flame-retardant and Halogen-free
- Up to 32 programmable zones
- Free assignment of the sensors to Zones
- Freely adjustable detection properties for each zone (max. / diff.)
- RS485 network and Modbus TCP/RTU
- 1000 event log memory
- Ethernet and USB interface for configuration software

APPLICATIONS

- Cable and supply tunnels, e.g.
 - Power plants
 - Heavy industry
- Car parks, vehicle silos
- Cold stores
- Industrial object protection, such as in conveyance systems and production lines
- Underground stations and tunnels
- Hollow floors and false ceilings
- Incineration plants, disposal operations
- Sawmills, agricultural sectors
- Open loading platforms
- And many other special applications





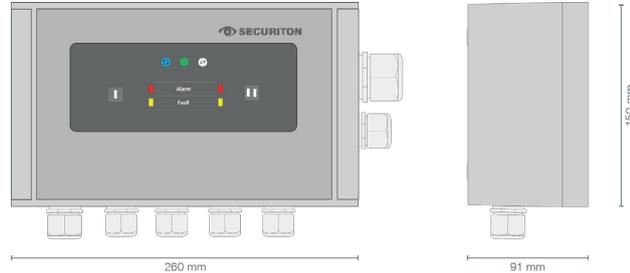
LINEAR HEAT DETECTION – SECURITON

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SPECIFICATIONS

SCU 835 Sensor Control Unit

Supply voltage	10.5 to 30 VDC
Power consumption	4.4 W (normal operation)
Relays per channel	1 × alarm / 1 × fault (fail-safe)
Optional REL 535 relay circuit board	16 × freely programmable
Relay contact load	30 VDC / 30 W 1A max.
Inputs	4 × opto-isolated inputs, 5..30 VDC / 1 × reset input, 5..30 VDC
Weight	1.95 kg with REL 835 2.1 kg
Housing material	Aluminium
Operating temperature	–25 to +70 °C
Protection type	IP 65
Interfaces	RS232: for configuration RS485: for configuration, network, connection to third-party systems USB: for configuration, firmware update Ethernet: for configuration, connection to third-party systems



Connection Box

Housing Material

Glass fibre-reinforced polycarbonate
IP66

Protection Type

Connection

CBO5SEC

CBO5ESD

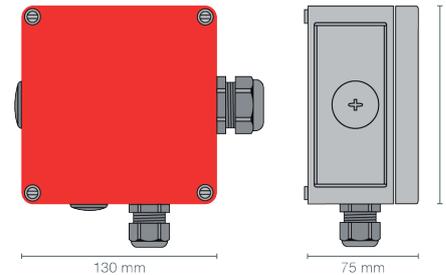
1 or 2 SEC 15 sensor cables
8 ESD-A5 individual sensors or 1 SEC15 sensor cable and 4 individual ESD-A5 sensors

Operating Temperature

CBO5SEC

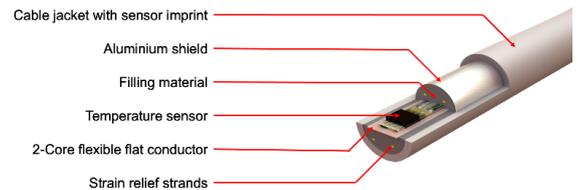
CBO5ESD

–35 °C to +70 °C (briefly +80 °C)
–35 °C to +60 °C (briefly +80 °C)



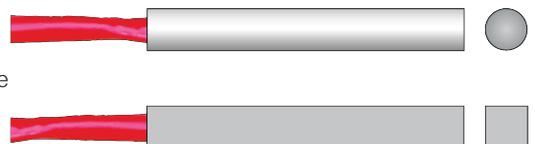
SEC15 Sensor Cable

Standard sensor interval	1, 2, 3, 4, and 5 metres. Other intervals are possible in the 0.25 to 10 metre range.
Maximum cable length	2 × 350 m (incl. CC15 connection cable)
Maximum number of sensors	2 × 100
Measurement range	–40 °C to +120 °C
Operating temperature (continuous)	–40 °C to +85 °C
Operating temperature (brief)	+120 °C
Resolution	0.1 °C
Cable sheathing material	Halogen-free, flame-retardant (in accordance with EN 60332-1-2, EN 60332-2-2, IEC 60754-1)
Diameter	approx. 15 mm
Weight per metre	0.35 kg/m
Colour	Grey
Min. bending radius	0.25 m
Laying temperature	> +10 °C



ES Individual Temperature Sensors – Round and Rectangular

Measuring Range	–55 °C to +120 °C
Materials	Stainless Steel 1.4571
Dimensions (W x H x D)	ESD-A5-EL 8 x 8 x 50 mm with 4 mm hole ESD-A5-RL Ø 8 x 50 mm
Length of Supply Cable	1, 5 & 10 metres



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