

D-LIST ASSESSMENT UNIT AECS/DLIST

Description

Unit for evaluating and controlling the temperatures measured by the SEC15 sensor cables and / or by the ES D external sensors. It has 2 ports for 2 sensor cable lines of up to 350m each (depending on configurations).

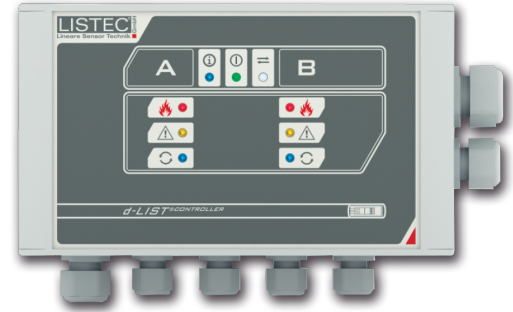
The alarm is triggered based on the data measured in one or more sensors by differential temperature or by maximum temperature. It incorporates intelligent evaluation algorithms for the exclusion of false alarms.

The alarm is signaled both optically on the front, alarm and fault LEDs, as well as by voltage-free relays, for each port, as well as 2 optical outputs for connecting sirens, acoustic luminous devices or similar.

Relay expansion by AECS/DLISTR835 card.

It has 4 programmable inputs for programming special functions such as day / night mode, deactivation of differential mode and coincidence detection.

Communication ports RS232, RS485. USB and Ethernet connection. ModBus RTU and TCP/IP protocol incorporated.



Characteristics

Evaluation of temperatures measured by sensor cables SEC 15 and/or external sensors ESD-A5

Two sensor cable ports A / B

Alarm triggering via differential or integration temperature evaluation as well as via maximum temperature evaluation

Response characteristic according to EN 54-22, approved by VdS Schadenverhütung GmbH, VdS no. G 221004, Environmental class III

1. as non-integrating line-type heat detector: A1N, A2N, BN, CN
2. as integrating line-type heat detector: A1I, A2I, BI, CI

Intelligent evaluation algorithms prevent false alarms

Highly durable via utilisation of maintenance-free components, RoHS compliant

Alarm indication on unit front via LEDs

Low power consumption

Up to 32 programmable zones from a possible of up to 255, for forwarding alarm and fault messages to superordinate systems via protocol

Type d-LCON: Common fire alarm and common fault relay each per sensor cable port A / B

Type d-LCON + relay board REL 835: 16 zone relays, freely programmable for fire alarms, faults or pre-signals per configured sensor cable section

Type d-LCON + adapter plate: To mount one XLM 35, ML-SFD module or one standard FACP alarm transponder type: 808623, FDCIO22 or up to two BX-OI3

Relay outputs configurable with loop resistors for closed-circuit monitoring

EMC approved cover gasket

Metric polyamide cable-glands with NBR O-Ring and sea

TECHNICAL CHARACTERISTICS

Indications on the front panel:

Fire alarm A/B:	LEDs, each red
A/B fault:	LEDs, each orange (amber)
In service:	LED, green
Measurement cycle A/B:	LEDs, each blue
Data transmission:	LED, white
Information:	LED, blue

System specification:

Operating temperature:	-25 °C ...+70 °C (environmental class III)
Ingress protection:	IP 65
Measurement resolution:	0.0625 °C, output via protocol interface 0.1 °C
Repeatability:	± 0.0625 K, output via protocol interface ± 0.1 K
Sensor quantity:	Min. 10 / max. 100 sensors per sensor cable port A / B (non-integrating algorithm)
Sensor quantity:	Min. 4 / max. 100 sensors per sensor cable port A / B (integrating algorithm, between 4...40 sensors per programmed alarm zone)
Sensor cable length:	Min. 10 m / max. 320 m per sensor cable port (max. 350 m including connection cable CC 15)

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TECHNICAL CHARACTERISTICS

Supported software protocols:

MODBUS (RTU) via RS232 or RS485 serial interfaces
 MODBUS TCP / IP via Ethernet interface (LAN)

Connections and interfaces

A / B: Sensor cable ports
 24 V DC: Power supply (connection to standard or alternative input possible)
 RS232: Connection to superordinate systems (switchable to RS485)
 RS485: For creating a d-LIST Master/Slave network, connection to superordinate systems, or for unit parametrisation via graphical user interface GUI d-LISTconfig (switchable to RS232)
 USB: For unit parametrisation and/or for firmware updates
 LAN: Ethernet interface with 100Mb/s for communication with a d-LIST Master/Slave network, as well as commissioning and maintenance via graphical user interface GUI d-LISTconfig
 Outputs: Relays for fire alarms and common faults for sensor cable connection A / B as well as two optical outputs for controlling external acoustics, flash light or similar
 Inputs: Four optical inputs for processing external information for special functions
 Reset: External reset input for acknowledging alarms and faults via the FACP or fire brigade operating panel
 Relay board: For controlling a relay board REL 835 with up to 16 potential-free contacts for transmitting alarms, faults and pre-signals to superordinate systems (option)
 Option bus 1: To operate an eXtendedLine-Module XLM 35 or MultiLine-SpecialFireDetector Module ML-SFD (option)
 Option bus 2: Micro-SD card: For storage of temperature data and events (option)

General data

Dimensions: 289.5 x 177.5 x 91.0 mm (w x h x d, maximum inclusive cable glands)
 Case material: Aluminium, powder coated in RAL 7035, light grey
 Power supply: +10.5 V ... +30 V DC
 Outputs: Two optical outputs (+5 V ... +30 V DC, 500 mA)
 Inputs: Four optical inputs and 1 x external reset (+5 V ... +30 V DC, 3 mA)
 Storage Conditions: 0 °C ... +60 °C, 30% ... 70% relative humidity, non condensing, prevention against shock, vibration, dust, electrostatic discharge ESD, UV light

d-LCON
 Weight: 1.95 kg, inclusive cable glands
 Current draw: Maximum 145 mA (normal operation) / maximum 150 mA (alarm) at 24 V DC and +25 °C
 Power consumption: Maximum 4.4 W at +10.5 V DC and +25 °C
 Relays: One each for common fire alarm and common fault per cable port A / B

d-LCON + Relay board REL 835
 Weight: 2.1 kg, inclusive cable glands
 Current draw: Maximum 175 mA (normal operation) / maximum 210 mA (alarm) at 24 V DC and +25 °C
 Power consumption: Maximum 5.5 W at +10.5 V DC and +25 °C
 Relays: One each for common fire alarm and common fault per cable port A / B as well as 16 zonal relays for alarms, faults or pre-alarms per programmed sensor cable zone

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Dimensions

