d-LISTcontroller d-LCON

GASEOUS SUPPRESSION WATER SUPPRESSION FOAM SUPPRESSION EXPLOSION PROTECTION **FIRE DETECTION** MILITARY & DEFENCE SPECIAL APPLICATIONS SUPPORT SERVICES
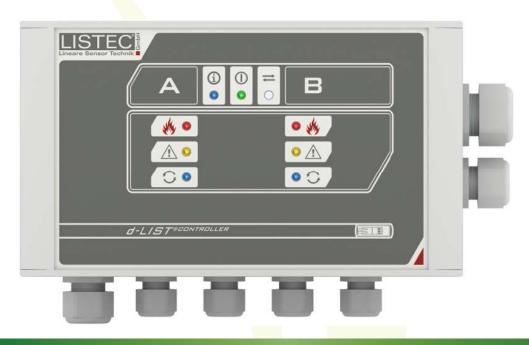

FEATURES

- 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 and 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** (applied for VdS certification)
- 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 seal

FRONT PANEL INDICATORS

- Fire alarm **A / B**:   **LED**, each red
- Fault **A / B**:   **LED**, each orange (amber)
- Operation: **LED**, green
- Measuring cycle **A / B**:   **LED**, each blue
- Data transmission: **LED**, white
- Information: **LED**, blue

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SYSTEM SPECIFICATIONS

- Operating temperature: -25 °C ...+70 °C (0 °C ... +40 °C approved by VdS)
- 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**
- Sensor cable length: Min. 10 m / max. 320 m per sensor cable port
                             (max. 350 m including connection cable **CC 15**)

SUPPORTED SOFTWARE-PROTOCOLS

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

CONNECTIONS AND INTERFACES

- A / B: Sensor cable ports
- 24 V DC: Power supply (redundant construction possible due to separate power supply)
- RS232:   Power supply (redundant construction possible due to separate power supply)
- RS232:   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 (option)
- Option bus 2:   To operate a MultiLine-SpecialFireDetector Module ML-SFD (option, expected from 2022/2023)
- 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

fire protection
TECHNOLOGIES

ORDERING INFORMATION

- d-LISTcontroller d-LCON   Art.-no.:62-2001001-01-xx
- Relay board REL 835 for d-LCON   Art.-no.:62-4001004-01-xx
- Adapter plate for alarm coupler BX-OI3   Art.-no.:62-4001001-01-xx
  For mounting up to two Schrack Seconet standard alarm transponder BX-OI3
- Adapter plate for alarm coupler FDCIO222   Art.-no.:62-4001001-02-xx
  For mounting a Siemens standard alarm transponder FDCIO222
- Adapter plate for alarm coupler 808623   Art.-no.:62-4001001-03-xx
  For mounting a Honeywell/ESSER standard alarm transponder 808623
- Adapter plate for XLM 35   Art.-no.:62-4001001-04-xx
  For mounting a Securiton eXtendedLine-Module XLM 35
- Adapter plate for ML-SFD   Art.-no.:62-4001001-05-xx
  For mounting a Securiton MultiLine-SpecialFireDetector Module ML-SFD

SCOPE OF DELIVERY

- d-LCON, including metric cable glands, connection and fixing material
- Option: Relay board REL 835 for d-LCON, including metric cable glands and connection and fixing material
- Option: Adapter plate for alarm transponder 808623, including fixing material (alarm coupler not included in scope of delivery)
- Option: Adapter plate for alarm transponder FDCIO222, including fixing material (alarm coupler not included in scope of delivery)
- Option: Adapter plate for alarm transponder BX-OI3, including fixing material (alarm coupler not included in scope of delivery)
- Option: Adapter plate for XLM 35, including fixing material (eXtendedLine-Module XLM 35 not included in scope of delivery)
- Option: Adapter plate for ML-SFD, including fixing material (MultiLine-SpecialFireDetector Module ML-SFD not included in scope of delivery)

DIMENSIONS

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TECHNOLOGIES