

Sensor Control Unit SCU 835



Features

- ▶ Evaluation of temperatures measured by sensor cables **SEC 15** and/or external sensors **ESD-A5**
- ▶ Two sensor cable ports **I / II**
- ▶ 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 **SCU 835**: Common fire alarm and common fault relay each per sensor cable port **I / II**
 Type **SCU 835** + relay board **REL 835**: 16 zone relays, freely programmable for fire alarms, faults or pre-signals per configured sensor cable section
 Type **SCU 835** + 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 I / II : | LED , each red |
| ▶ Fault I / II : | LED , each orange (amber) |
| ▶ Operation: | LED , green |
| ▶ Measuring cycle: | LED , blue |
| ▶ Data transmission: | LED , white |

System Specifications

- ▶ 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 **I / II** (non-integrating algorithm)
- ▶ Sensor quantity: Min. 4 / max. 100 sensors per sensor cable port **I / II** (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**)

Supported Software-Protocols

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

Connections and Interfaces

- ▶ **I / II:** 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 **I / II** 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

SCU 835

- ▶ **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 **I / II**

SCU 835 + 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 **I / II** as well as 16 zonal relays for alarms, faults or pre-alarms per programmed sensor cable zone

Ordering Information

- ▶ Sensor Control Unit **SCU 835** Art.-no.: **62-2001001-04-xx**
- ▶ Accessories **d-LCON** / **SCU 35** option plugs Art.-Nr.: **62-4001023-01-xx**
- ▶ Relay board **REL 835** for **SCU 835** Art.-no.: **62-4001004-01-xx**
- ▶ Relay board **REL 835** accessories for **SCU 835** Art.-Nr.: **62-4001009-01-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**

Ordering Information

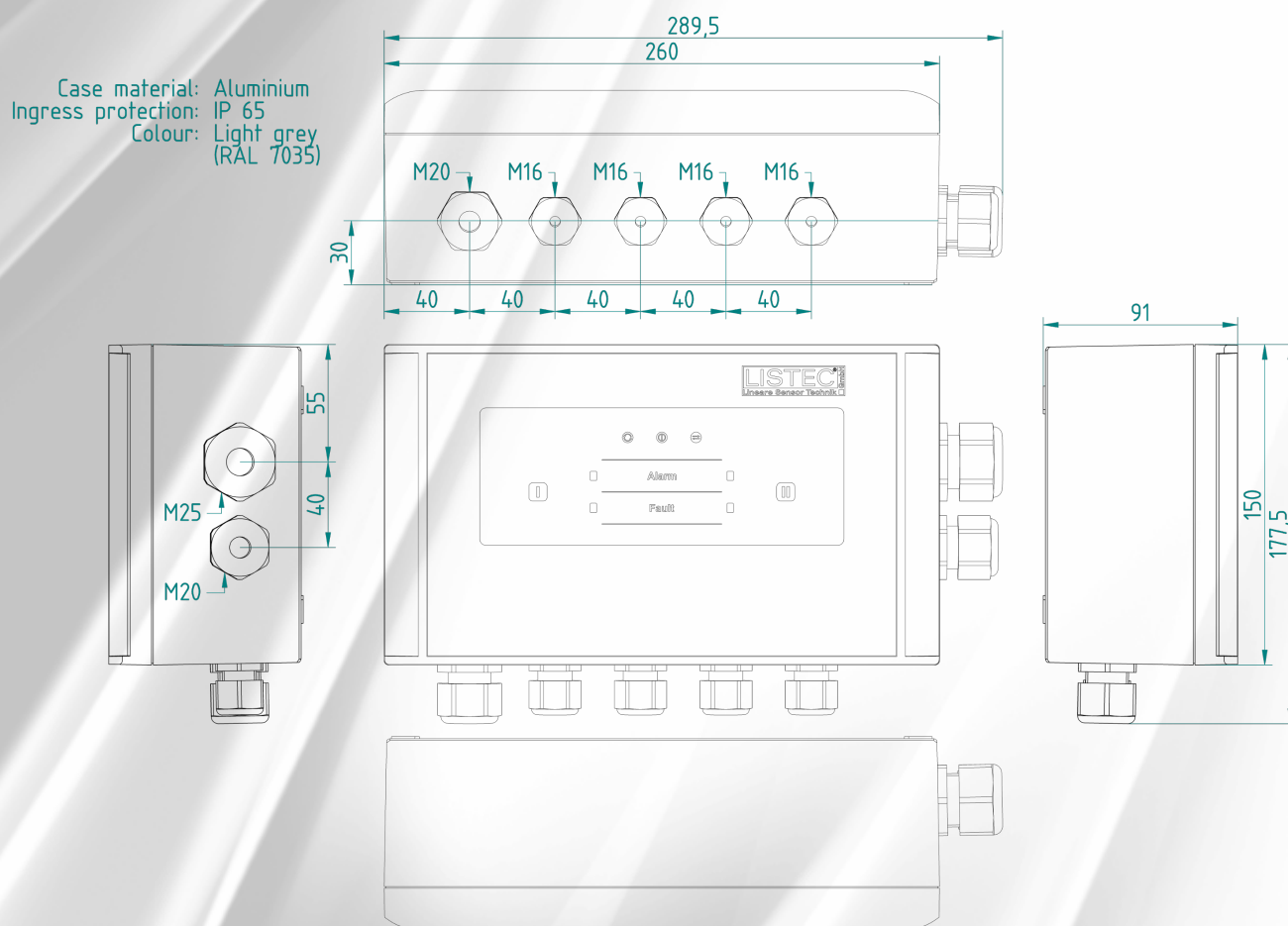
- ▶ Adapter plate for **ML-SFD**
For mounting a Securitron **MultiLine-SpecialFireDetector Module ML-SFD**

Art.-no.: **62-4001001-05-xx**

Scope of Delivery

- ▶ **SCU 835**, including metric cable glands, connection and fixing material
- ▶ Optional: Accessories **SCU 835** option plugs, including splittable M20 cable gland, LAN cable holder and additional plugs for communication via **RS232**, **RS485** as well as opto-coupler inputs and outputs
- ▶ Optional: Relay board **REL 835** for **SCU 835**
- ▶ Optional: Relay board **REL 835** accessories for **SCU 835**, including metric cable gland, connection cable, fixing material, 0 Ω jumpers and plugs
- ▶ 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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