Sensor Control Unit SEC-SCU-835

Features

- Evaluation of temperatures measured by sensor cables SEC-LSC-15-xx and/or external sensors SEC-ESD-A5-xx-xx
- Two sensor cable ports I / II
- Alarm triggering via differential or integration temperature evaluation as well as via maximum temperature evaluation
- 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 SEC-SCU-835:** Common fire alarm and common fault relay each per sensor cable port I / II
- **Type SEC-SCU-835 + relay board SEC-REL-835:** 16 zone relays, freely programmable for fire alarms, faults or pre-signals per configured sensor cable section
- **Type SEC-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 SEC-LSC-15-CC)

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 SEC-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 e**X**tended**L**ine-**M**odule **XLM 35** or **M**ultiLine-**S**pecial**F**ire**D**etector 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

SEC-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

SEC-SCU-835 + Relay board SEC-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 SEC-SCU-835
- Accessories d-LCON / SCU 35 option plugs
- Relay board SEC-REL-835 for SEC-SCU-835
- Relay board SEC-REL-835 accessory pack SEC-REL-ACC-AP

Dimensions

Case material: Aluminium
Ingress protection: IP 65
Colour: Light grey (RAL 7035)