AAECU

AlarmLine II Analogue EN Control Unit

General

The AlarmLine II Analogue EN Linear Heat Detection (LHD) system comprises of AlarmLine II Analogue EN Linear Heat Detection (LHD) sensor cable (AAE-xxxx), a AlarmLine II Analogue EN Controller (AAECU) and a AlarmLine II Analogue EN end of line unit (AAECU-EOL). The controller provides monitoring of the AlarmLine II Analogue EN range of LHD sensor cable, configuration of alarm and pre-alarm temperatures as well as enabling simple interface to a main fire alarm or BMS system.

Interface & Programming

The AAECU provides LED indications as well as a LCD. Internal pushbuttons allow for easy configuration without the need for a PC. Configuration via PC is also supported via a USB connection and the optional configuration software AAECU-PCC.

Pre-Alarm and Alarm thresholds can be set through simple menu options. Initial set-up is done by measuring and entering the calibration resistance of the sensor cable, as well as the 3 letter cable parameter identifier.

Volt free changeover contacts are provided inside the control unit for Pre-Alarm and Alarm signaling to a main fire alarm control panel or BMS system. A failsafe opto-isolated phototransistor fault output is also provided.

No user controls are provided on the control unit. An isolated input is provided enabling remote reset functionality.

Operation

As well as monitoring the LHD sensor cable for changes in temperature, the control unit also monitors for open and short circuit faults along the cable ensuring notification if the cable becomes damaged.It is fitted with its own internal temperature monitor and should the temperature within the controller enclosure reach 100°C (212°F), an alarm will be signaled.

Each control unit may have up to 500m (1640ft) of LHD sensor cable connected to it, acting as a single detection zone.

Details

The AAECU is supplied with an End-Of-Line unit (AAECU-EOL) included. The End-Of-Line unit (AAECU-EOL) is also available separately as a spare part.

A junction box (AAECU-JUN) is also available separately, if two pieces of cable needs to be joint.



Details

- VdS EN54-22:2015/prA1:2007 certified
- Up to 500 m of sensor cable per zone
- Separate pre-alarm and alarm signals
- Easy programmable interface
- Enclosure temperature alarm
- IP65 rated enclosure

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Technical specifications

General

Status indication	4 x LED's (power, fault, pre-alarm & alarm)
User interface	LCD display with internal configuration buttons
Compatibility	AAE/ F304 & F305 series analogue LHD cable
Reset voltage	5 to 28 VDC for > 3 s
Alarm levels	Configurable
Connectivity	2-wire RS-485 Modbus RTU or ASCII

Electrical

Power supply type	External
Power consumption	< 2 W
Operating voltage	20 to 30 VDC
Current consumption	59 mA at 30 VDC

Detection

Detection principle	Heat - Classes A1I/A2I & BI
Alarm temperature (maximum)	+100°C
Alarm temperature (minimum)	+54°C

Input

Input quantity	1 for remote reset
Input type and rating	5 to 28 VDC (at 2 mA) > 3 s

Output

Output quantity	3 for fault, pre-alarm and alarm
Output type and rating	Pre-alarm and alarm: relay with NO/NC/C connections (2 A at 30 VDC), Fault : NC opto-isolated phototransistor output

Physical

Physical dimensions	Controller: 182 x 180 x 90 mm (7 1/8" x 7 1/8" x 3 1/2") (W x H x D) EOL unit: 100 x 60 x 35 mm (4" x 2 3/8" x 1 3/8") (W x H x D)
Net weight	Controller: 860 g EOL unit: 115 g
Colour	Light grey
Mounting type	Surface mount, Wall mount
Material (body)	Polycarbonate

Environmental

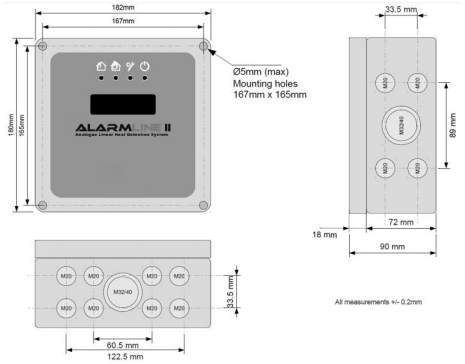
Vandal proof	No
Operating temperature	Controller: -20 to +50°C EOL unit: -40 to +125°C
Relative humidity	Controller: 0 to 99% ambient temperature -20 to +30°C / 0 to 75% ambient temperature greater than +30°C EOL unit: 0 to 99% ambient temperature -40 to +40°C / 0 to 75% ambient temperature greater than +40°C
IP rating	Controller: IP65 (IK08) EOL unit: IP65

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Voluntary marks	VdS
Standards	EN54-22

Compatible products

Category	Reference	Description
Detection device	AAE-0100	AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 100 m
Detection device	AAE-0200	AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 200 m
Detection device	AAE-0500	AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 500 m
Detection device	AAECU-EOL	AlarmLine II Analogue EN LHD Replacement Part – EOL module
Detection device	AAECU-JUN	AlarmLine II Analogue EN LHD Junction box
Detection device	AAECU-PCC	AlarmLine II Analogue EN LHD PC Software w/ USB Cable
Detection device	F3051-0100	Alarmline II Analogue EN LHD Cable w/ Nylon Sheath, 100 m
Detection device	F3051-0500	Alarmline II Analogue EN LHD Cable w/ Nylon Sheath, 500 m
Detection device	F3052-0100	Analogue EN LHD Cable w/ PVC Sheath & Stainless Steel Braid, 100 m
Detection device	F3052-0500	Analogue EN LHD Cable w/ PVC Sheath & Stainless Steel Braid, 500 m



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