AACUSP

Alarmline II Analogue LHD Control Unit, self programmable

General

The AACUSP is a self programmable, Analogue Liner Heat Detection (LHD) cable control unit. It provides monitoring for any of the Alarmline II 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 AACULP provides LED indications as well as an LCD. Internal pushbuttons allow configuration without the need for a PC.

Pre-Alarm and Alarm thresholds can be set through simple menu options with no need for any graphs or nomograms. Initial set-up is done by measuring and entering the calibration resistance of the sensor cable removing the need to know the sensor cable length.

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. When the LHD sensor cable and the control unit are installed in different areas, a suitable interposing cable can be used to make the electrical connection between them.



Details

- UL521 and CE approval, UL/ULC listed
- Up to 500m of sensor cable per zone
- Separate pre-alarm and alarm signals
- Easy programmable interface
- Enclosure temperature alarm
- IP66 rated enclosure
- No nomograms or charts required

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Technical specifications

Electrical

Operating voltage	20 to 28 VDC
Current consumption	<70mA (Quiescent) <70mA (Fault) <80mA (Pre-Alarm) <80mA (Alarm) <100mA (Pre-alarm & alarm)

Physical

Physical dimensions	182 x 180 x 90 mm (W x H x D) 7 1/8" x 7 1/8" x 3 1/2" (W x H x D)
Net weight	815 g
Colour	Light grey
Mounting type	Recessed mount
Material (body)	Polycarbonate

Environmental

Operating temperature	0 to +50°C
Relative humidity	0 to 95% max. noncondensing, 75% for <75 m cable & 54°C alarm setting
Environment	Indoor, Outdoor
IP rating	IP66 IK08

Regulatory

Certification	CE, UL

Output

Pre-Alarm (Form C relay resistive load)	2 A @ 30 VDC / 0.25 A @ 250 VAC (62.5 VA)
Alarm (Form C relay resistive load)	2 A @ 30 VDC / 0.25 A @ 250 VAC (62.5 VA)
Fault (Opto-isolated phototransistor output) Max.	50 V @ 20 mA

Input

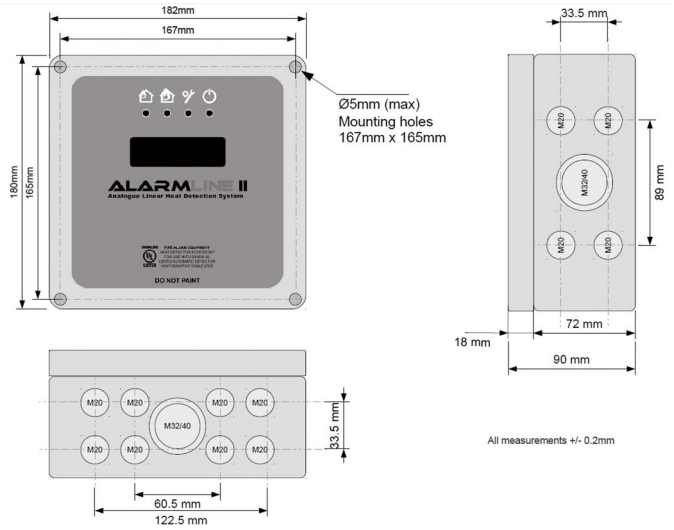
Remote reset (isolated) 5s pulse	20 to 28 VDC

Zone

Length	30.5 to 500 m (100 to 1640 ft)

Detection

Ambient Temperature up to 30°C	Alarm Temperature - 54°C
Ambient Temperature up to 47°C	Alarm Temperatures - 64°C / 72°C / 79°C
Ambient Temperature up to 69°C	Alarm Temperatures - 86°C / 100°C



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