GET ALARMED IF NECESSARY

Overheat & Fire
Smoke
Overflow
Flow

"Avoid any desaster!"
Detect Heat before it comes to Fire
Detect Smoke before Smoke kills
Detect Tank-Overflow before Flooding

The 1. and complete ready to go solution!

LICO custom-made "Alarmpanels"

Application:
- Production Halls,
- Storages
- Dryers, Ovens
- Engine rooms
- Marine, Yachts
- Heating rooms
- Warehouses
- Gas-stations
- Hangars, Garages
- Factories
- Ceilings, Vents, Transport Industry, Oil- Gas- Energy-industry

Protect your Valueables

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Overheat & Firealarm, the 1. and complete ready to go solution!

Smoke & Smokealarm, the 1. and complete ready to go solution!

Overflow Detection & Alarm, the 1. and complete "ready to go" solution!

Connect 1 or more, even many "switches" per line-input.

The Alarmpanel has 2 line-inputs, ready to go solution!

Ask for LICO’s OFD-datasheet!

Ask for LICO’s HDL-datasheet!
Complete and Functional Systems:

Overheat & Firealarm, the 1. and complete ready to go solution!

Remote Smoke- & Firealarm, the 1. and complete ready to go solution!

Connect equal or different "switches" to the Alarmpanel at the same time.

Overheat, Smoke- & Firealarm, the 1. and complete ready to go solution!
**Description:**

- Alarmpanel with smart Microcontroller for 2 Heat-detectors, i.e. for pair 60°C & 60°C or unpair 60°C & 71°C or 71°C & 88 °C or higher up to 510 °C or 1 or 2 real industrial Smoke-Detectors or 1 or 2 Overflow Detectors or various Level and Flowswitches - N/O or N/C alarm-switch-setting can be ordered
- ready for system-installation-certification i.e. ATEX-cert, Ex-cert
- just *intrinsically safe* 10mA sensor-current, - surface mount or stand alone,
- watersafe - IP 66
- massive aluminum housing sealed with O-Ring,
- stainless steel screws
- CE-label
- All custom-made versions available

**Technical data of Alarmpanel:**

- Power 9-30 VDC
- Power consumption: <1W
- Inputs for 2 Sensor-lines, 4 or 2 wires, 1 or more per line
- Integrated LEDs and alarm-buzzer
- Active Outputs for Alarm, Buzzer & LED
- Testfunction, Still function
- Membrane switch-keyboard
- Integrated permanent cable-break control
- Temperature range: - 20°C/+60°C
- Dimensions: Frontpanel: 80x120x15 mm

**Function:**

- Connect the HDL Heat Detectors with the Alarmpanel
- Connect 9-30VDC to the Alarmpanel
- Turn On (if applicable) or apply power
- From Now on you will be alarmed by the Alarmpanel in the case of Overheat, Fire, Smoke, Overflow, Flow-stop etc - in most cases there is still no Fire etc and you have a good chance to sop the source of overheat or failure before it comes to Fire or any other desaster.

May be reasonable to connect also a Clever Smokedetector or get your 2 systems: 1 system for overheat, 1 system for smoke Detection or ...

**Special Features:**

**Test-function:**
- test if your sensor is "On-Line" in Combination with internal and external audible and visual alarms

**Still-Function:**
- for special applications the Alarm can me "muted"

**Possible Heat-detector:**

- Partnumber of housing without DAF: HDL-X
- Partnumber of housing with DAF: HDL-X-DAF-type
Ordering Information & Custom-made Choices welcome:

**Alarmpanel**

select the choice of Detectors:

<table>
<thead>
<tr>
<th>Choice</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>Heat</td>
</tr>
<tr>
<td>HH</td>
<td>Heat-Heat</td>
</tr>
<tr>
<td>HS</td>
<td>Heat-Smoke</td>
</tr>
<tr>
<td>S</td>
<td>Smoke</td>
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<tr>
<td>SS</td>
<td>Smoke-Smoke</td>
</tr>
<tr>
<td>O</td>
<td>Overflow</td>
</tr>
<tr>
<td>OO</td>
<td>Overflow-Overflow</td>
</tr>
</tbody>
</table>

Output:

- L: 2 x just LED
- S: 2 x acoustical alarm switch
- A: 2 x active 9-30V, max 2A

Media:

- Diesel D
- Gasoline G
- Water W
- Other Media OM

**Heat Detectors:**

Heat-Sensor 1:

- Select the choice of Temperatures in °C:
  - Heat-Detector: 60
  - Heat-Detector: 71
  - Heat-Detector: 88
  - Heat-Detector: 99
  - Heat-Detector: 107
  - Other Temp.: OT

Heat-Sensor 2:

- Select the choice of Temperatures in °C:
  - Heat-Detector: 60
  - Heat-Detector: 71
  - Heat-Detector: 88
  - Heat-Detector: 99
  - Heat-Detector: 107
  - Other Temp.: OT

Presently max. 510°C

**Overflow Detectors OFD:**

OFD-Sensor 1:

- Select the choice of Media:
  - Medium
  - Diesel D
  - Gasoline G
  - Water W
  - Other Media OM

OFD-Sensor 2:

- Select the choice of Media:
  - Medium
  - Diesel D
  - Gasoline G
  - Water W
  - Other Media OM

**More Detectors:**

- Flowswitches
- Levelswitches
- Signalswitches

**Keypad-Layout:**

Any custom-made Layout can be realized
Custommade Keypad Configuration can be realized

**Contacts:**

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