LICO HDL3 & HDL5, certified EN54-5-Heat- & Fire-Detectors
Detect Heat and prevent Overheat, Fire & Explosion

Heat detector
Ready to install units
Custom made Alarmpanels

LICO Electronics GmbH
Klederinger Str. 31,
A-2320 Kledering, Austria
Tel: +43 1 706 43 000
Email: office @lico.at | sales@lico.at

EN54-5
**HDL-3 & HDL-3 XL Heat- & Fire-Detector Variations:**

**Commercial & Standard Sauna:**

- Saunas, Power plants, Engine rooms,
- Heating rooms, Air-filter / Duct Systems,
- Chemical plants, Production lines
- Transformer stations, Factories, Kitchens,
- Ceilings, Switch board cabinets etc.

**Application:**

- HDL-3 / HDL-3-XL EN54-5 Ex*:
  - Recommended for any kind of industrial and commercial applications where there are EN54-5 and/or ATEX/Ex-requirements.

  - Solid, easy to use & very price economic heat detector units. Designed until 150 °C permanent temp. applications.

  - Sensors are mounted with maximum torque of 27 Nm and sealed with special, high temperature sealant.

  - Cable glands are mounted & fixed with counter nut and sealed with special, high temperature sealant.

  - Double thread allows unique through wall installation possibilities using the Detect-A-Fire-Sensor with Coupling Head 28020-003 or 28021-005. The Junction Box may stay at the cooler part of the installation.

  - *Housing ATEX/IECEx-certified:
    - Ex ll 2 GD, Ex e/ib IIIC Gb, Ex tb IIIC Db IP6X*
    - +40°C/+80°C with Neoprene seal,
    - -70°C/+130°C with Silicone-seal,
    - IP67, Internal & external ground-connection
    - saltspray-safe, vibration- & shock proven

  - Wiring Terminal: up to 130°C ATEX/IECEx certification

  - Standard ATEX/IECEx certified Cable Gland Variations:
    - 20 - +80°C with Neoprene seal, IP66/68
    - 40 - +100°C with EPDM-seal, IP66/68
    - -70 - +220°C with Silicone-seal, IP66/68

  - Options/ Accessories:
    - oil-resistant mounting of Heat Detector and Cable gland
    - 2. Cable gland
    - Series und EOL – End of Line Resistors
    - Very High Temperature Silicone Sealings

**Individual HDL-3 XL constructions:**

- HDL-3 Standard Size junction box dimensions:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Outside L. (mm)</th>
<th>Outside W. (mm)</th>
<th>Inside L. (mm)</th>
<th>Inside W. (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL3</td>
<td>80</td>
<td>75</td>
<td>68</td>
<td>63</td>
<td>57</td>
</tr>
<tr>
<td>HDL3-XL</td>
<td>80</td>
<td>125</td>
<td>68</td>
<td>113</td>
<td>57</td>
</tr>
</tbody>
</table>

*For bespoken, custom made units please contact LICO*
HDL-5-EN54-5 Very High Temperature Heat- & Fire-Detector

**HDL-5-EN54-5:**
Recommended for any kind of high temperature industrial and commercial applications where there are EN54-5 and or ATEX/Ex requirements.

Simply easy, very price economic and reliable Heat & Fire Detector unit. Designed until 220 °C ATEX-certified permanent temperature applications. The real max. operational temperature can be higher.

Sensors are mounted with maximum calibrated torque tool of 27 NM and sealed with special, high temperature sealant.

Cable glands are mounted & fixed with counter nut and sealed with special, high temperature sealant.

Double thread allows unique through wall installation possibilities use with Sensor 28020-003 or 28021-005. The Junction Box may stay at the cooler part of the installation Detect-A-Fire-Sensor with Coupling Head.

*Housing ATEX/IECEX-certified:
Ex II 2 GD, Ex e/ib IIIC Gb, Ex tb IIIC Db IP6X*
- 70°C/+220°C with Silicone-seal, - IP67

-Ceramic Wiring Terminals: ATEX/IECEX-certified:
ATEX certified until 210°C, max op.temp: >300°C

Standard ATEX/IECEX Cable gland:
ATEX certified –70 - +220°C with Silicone-seal, IP66/68

Options/Accessories:
- oil-resistant mounting of Heat Detector & Cable Gland
- 2. Cable gland
- Cement based ultra high temperature Series and EOL – End of Line Resistors
- Ultra high temperature Silicone Sealings

**HDL-3 & HDL 5 Components are Certified according to:**
(For further info and actual certificate please contact LICO)

**HDL-5 Standard Size junction box dimensions:**

<table>
<thead>
<tr>
<th>HDL-5</th>
<th>Outside L. (mm)</th>
<th>Outside W. (mm)</th>
<th>Inside L. (mm)</th>
<th>Inside W. (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>120</td>
<td>122</td>
<td>104</td>
<td>88.5</td>
<td>80</td>
</tr>
</tbody>
</table>

For bespoken, custom made boxes please contact LICO
**HDL3-EN54-5 & HDL5-EN54-5 part numbers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Sensor Housing</th>
<th>Switch</th>
<th>Sensor body</th>
<th>Nominal Temperature</th>
<th>Sensor mounting</th>
<th>Wiring block</th>
<th>Entries</th>
<th>Type</th>
<th>Seal Lid</th>
<th>Resistor</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL</td>
<td>3-EN54-5</td>
<td>-S Single</td>
<td>-1 NO</td>
<td>°C / °F</td>
<td>-S Standard</td>
<td>-L Lid</td>
<td>-1 One</td>
<td>-1</td>
<td>-A</td>
<td>-1</td>
<td>-N</td>
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<tr>
<td></td>
<td>3XL-EN54-5</td>
<td>-D Double</td>
<td>-2 NC</td>
<td>60 / 140</td>
<td>-C Ceramic</td>
<td>-B Box</td>
<td>-2 Two</td>
<td>-2</td>
<td>-B</td>
<td>-2</td>
<td>-1</td>
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<td>5-EN54-5</td>
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<td></td>
<td>71 / 160</td>
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<tr>
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<td></td>
<td>88 / 190</td>
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<td></td>
<td>107 / 225</td>
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<td></td>
<td>135 / 275</td>
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<td></td>
<td>165 / 325</td>
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<td></td>
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<td>*tested but above EN-54-5</td>
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<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Sample Purchase order number:**
HDL3-EN54-5-S -1 -BR 135 -B -S -1 -C -1 -N

**Examples of order numbers:**
- for Sauna & Standard Commercial: HDL3-EN54-5-S-1-BR135-B-S-1-C-1-N
- for High Temperature: HDL5-EN54-5-S-1-ST165-B-C-2-C-1-B

**Restrictions:**
1. 2 or + Entries only in size HDL3XL and HDL5
2. Resistors: only in size HDL3XL and HDL5
3. Double thread Sensor mount: only mount in box, never into lid
4. Nominal max. Operating Temperature:
   - Standard wiring block 135°C+, Ceramic wiring block: 220°C+
5. Ceramic wiring block: available only @ HDL5
6. General mounting: if not otherwise specified the sensor would be mounted 180° opposite to the cable-gland

**On request:**
- Weld-in- and Screw-in-pods (Stainless or PTFE or ...)
- ExD Housings
- Stainless-steel housings
- Stainless-steel cable glands

LICO Electronics GmbH
Klederinger Str. 31,
A-2320 Kledering, Austria
Tel: +43 1 706 43 000
Email: office@lico.at | sales@lico.at

www.prevent-a-fire.eu
Dimensions:

**Weight:**
- HDL3: 620g net
- HDL3XL: 765g net
- HDL5: 1310 g net

**Custom tariff no.:**
8531 1030

**Disclaimer:**
All the herein given specifications, dimensions, weights, temperatures and tolerances and other values are nominal (typical) and LICO reserves the right to vary all data without prior notice. No liability is accepted for any consequence of use.
**Available Standard Fenwal DAF® Sensor Variations:**

**Single Thread units:**
Brass & Stainless Steel or Fully Stainless steel
N/C (2 wire) Opens at temperature rise or N/C (4 wire) Closes at temperature rise

<table>
<thead>
<tr>
<th>2-wire unit</th>
<th>4-wire unit</th>
<th>Nominal Switching temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/C, Opens at Rise</td>
<td>N/O, Closes at Rise</td>
<td></td>
</tr>
<tr>
<td>Sensor Housing Stainless Steel</td>
<td>Sensor Housing Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Body Brass</td>
<td>Body Stainless</td>
<td>Body Brass</td>
</tr>
<tr>
<td>27120-000-140</td>
<td>27121-022-140</td>
<td>27121-000-140</td>
</tr>
<tr>
<td>27120-000-160</td>
<td>27120-022-160</td>
<td>27121-000-160</td>
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<tr>
<td>27120-000-190</td>
<td>27120-022-190</td>
<td>27121-000-190</td>
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<tr>
<td>27120-000-210</td>
<td>27120-022-210</td>
<td>27121-000-210</td>
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<tr>
<td>27120-000-225</td>
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<td>27120-000-275</td>
<td>27120-022-275</td>
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<td>27121-000-600</td>
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<tr>
<td></td>
<td></td>
<td>27121-000-725</td>
</tr>
</tbody>
</table>

**Double Thread (Coupling Head) units:**
Fully Stainless steel in 2 Versions:
N/C (2 wire) Opens at temperature rise
N/C (4 wire) Closes at temperature rise

Class 1, Group A requires fully Stainless-steel Fenwal DAF-versions!

<table>
<thead>
<tr>
<th>2-wire unit</th>
<th>4-wire unit</th>
<th>Nominal Switching temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/C, Opens at Rise</td>
<td>N/O, Closes at Rise</td>
<td></td>
</tr>
<tr>
<td>Sensor Housing Stainless Steel</td>
<td>Sensor Housing Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Body Brass</td>
<td>Body Stainless</td>
<td>Body Brass</td>
</tr>
<tr>
<td>28020-003-140</td>
<td>28021-005-140</td>
<td>28021-005-140</td>
</tr>
<tr>
<td>28020-003-160</td>
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<td>28020-003-210</td>
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<tr>
<td>28020-003-325</td>
<td>28021-005-325</td>
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</tr>
<tr>
<td>28020-003-360</td>
<td>28021-005-360</td>
<td>28021-005-360</td>
</tr>
<tr>
<td>28020-003-450</td>
<td>28021-005-450</td>
<td>28021-005-450</td>
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<tr>
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<td>28021-005-500</td>
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<td>28021-005-600</td>
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<tr>
<td></td>
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<td>28021-005-725</td>
</tr>
</tbody>
</table>
EC-Certificate of Conformity of Performance

1415-CPR-67/(C-46/2017)

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product HDL-3, HDL-3XL and HDL-5 heat-fire detectors

with performance shown in the annex as page 3/3 of this certificate for Fire safety intended use and

produced by

LICO Hungária Kft.
2030 Újdevecser, Hungary

and produced in the manufacturing plant

LICO Hungária Kft.
2030 Újdevecser, Hungary

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard EN 54-5:2000, EN 54-5:2000/A1:2002 under system (1) are applied and that the product fulfills all the prescribed requirements set out above.

This certificate was first issued on 02.01.2018. and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

This certificate consists of 3 pages!

Dated at Szentendre, 2nd January 2018

Molnár Ágnes
Head of Certification Office
Certification Office of ÉMI Non-profit Ltd.
Custom Made
Fire Prevention Solutions from LICO!

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Fax: +36 23 520 115

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Fax: +40 365 434 999

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