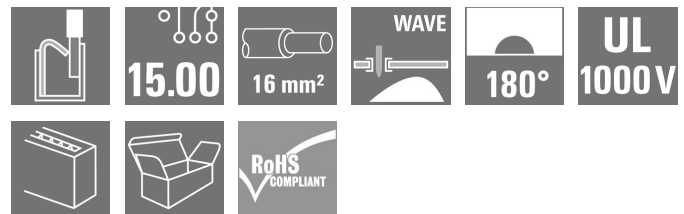


**LUFS 15.00/05/180V 5.0SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

**The sturdy, direct connection for extreme current and voltage requirements in all power electronics applications such as solar inverters, frequency converters, servo-controllers and power supplies.**

**General ordering data**

|              |                                                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, 15.00 mm, Number of poles: 5, 180°, Solder pin length (l): 5 mm, black, PUSH IN without actuator, Clamping range, max.: 16 mm², Box |
| Order No.    | <a href="#">2492240000</a>                                                                                                                                           |
| Type         | LUFS 15.00/05/180V 5.0SN BK BX                                                                                                                                       |
| GTIN (EAN)   | 4050118564730                                                                                                                                                        |
| Qty.         | 20 pc(s).                                                                                                                                                            |
| Product data | IEC: 1000 V / 101 A / 0.5 - 25 mm²<br>UL: 600 V / 57 A / AWG 18 - AWG 4                                                                                              |
| Packaging    | Box                                                                                                                                                                  |

Creation date May 16, 2025 3:37:26 AM CEST

**LUFS 15.00/05/180V 5.0SN BK BX**
**Weidmüller Interface GmbH & Co. KG**

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Germany

[www.weidmueller.com](http://www.weidmueller.com)
**Technical data**
**Dimensions and weights**

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Depth                    | 24.7 mm    | Depth (inches)  | 0.972 inch |
| Height                   | 36.3 mm    | Height (inches) | 1.429 inch |
| Height of lowest version | 31.3 mm    | Width           | 71.58 mm   |
| Width (inches)           | 2.818 inch | Net weight      | 51.601 g   |

**System parameters**

|                                              |                                                             |                                            |                              |
|----------------------------------------------|-------------------------------------------------------------|--------------------------------------------|------------------------------|
| Product family                               | OMNIMATE Power - series LU                                  | Wire connection method                     | PUSH IN without actuator     |
| Mounting onto the PCB                        | THT solder connection                                       | Conductor outlet direction                 | 180°                         |
| Pitch in mm (P)                              | 15 mm                                                       | Pitch in inches (P)                        | 0.591 "                      |
| Number of poles                              | 5                                                           | Pin series quantity                        | 1                            |
| Fitted by customer                           | No                                                          | Number of rows                             | 1                            |
| Solder pin length (l)                        | 5 mm                                                        | Solder pin dimensions                      | d = 1.2 mm, Octagonal        |
| Solder eyelet hole diameter (D)              | 1.7 mm                                                      | Solder eyelet hole diameter tolerance (D)+ | 0, 1 mm                      |
| Number of solder pins per pole               | 2                                                           | Screwdriver blade                          | 0.8 x 4.0                    |
| Stripping length                             | 18 mm                                                       | L1 in mm                                   | 60 mm                        |
| L1 in inches                                 | 2.362 "                                                     | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged |
| Touch-safe protection acc. to DIN VDE 57 106 | touch-safe with connected connectors from 6 mm <sup>2</sup> | Protection degree                          | IP20                         |

**Material data**

|                                  |            |                             |        |
|----------------------------------|------------|-----------------------------|--------|
| Insulating material              | Wemid (PA) | Colour                      | black  |
| Colour chart (similar)           | RAL 9011   | Insulating material group   | I      |
| Comparative Tracking Index (CTI) | ≥ 600      | UL 94 flammability rating   | V-0    |
| Contact material                 | Cu-alloy   | Storage temperature, min.   | -40 °C |
| Storage temperature, max.        | 70 °C      | Operating temperature, min. | -40 °C |
| Operating temperature, max.      | 120 °C     |                             |        |

**Conductors suitable for connection**

|                                                                     |                     |
|---------------------------------------------------------------------|---------------------|
| Clamping range, min.                                                | 0.5 mm <sup>2</sup> |
| Clamping range, max.                                                | 16 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                             | AWG 18              |
| Wire connection cross section AWG, max.                             | AWG 4               |
| Solid, min. H05(07) V-U                                             | 0.5 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                                             | 16 mm <sup>2</sup>  |
| Stranded, min. H07V-R                                               | 10 mm <sup>2</sup>  |
| Stranded, max. H07V-R                                               | 25 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                          | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                                          | 25 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm <sup>2</sup> min. |                     |
| w. plastic collar ferrule, DIN 46228 pt 4, 16 mm <sup>2</sup> max.  |                     |
| w. wire end ferrule, DIN 46228 pt 1, 0.5 mm <sup>2</sup> min.       |                     |
| w. wire end ferrule, DIN 46228 pt 1, 16 mm <sup>2</sup> max.        |                     |

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|                                        |                                        |                              |                             |       |
|----------------------------------------|----------------------------------------|------------------------------|-----------------------------|-------|
| Clampable conductor                    | Cross-section for conductor connection | Type                         | fine-wired                  |       |
|                                        |                                        | nominal                      | 2.5 mm <sup>2</sup>         |       |
|                                        | wire end ferrule                       | Stripping length             | nominal                     | 20 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H2.5/25D BL</a> |       |
|                                        |                                        | Stripping length             | nominal                     | 18 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H2.5/18</a>     |       |
|                                        | Cross-section for conductor connection | Type                         | fine-wired                  |       |
|                                        |                                        | nominal                      | 4 mm <sup>2</sup>           |       |
|                                        | wire end ferrule                       | Stripping length             | nominal                     | 20 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H4.0/26D GR</a> |       |
|                                        |                                        | Stripping length             | nominal                     | 18 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H4.0/18</a>     |       |
|                                        | Cross-section for conductor connection | Type                         | fine-wired                  |       |
|                                        |                                        | nominal                      | 6 mm <sup>2</sup>           |       |
|                                        | wire end ferrule                       | Stripping length             | nominal                     | 20 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H6.0/26 SW</a>  |       |
|                                        |                                        | Stripping length             | nominal                     | 18 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H6.0/18</a>     |       |
|                                        | Cross-section for conductor connection | Type                         | fine-wired                  |       |
|                                        |                                        | nominal                      | 10 mm <sup>2</sup>          |       |
|                                        | wire end ferrule                       | Stripping length             | nominal                     | 21 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H10.0/28 EB</a> |       |
|                                        |                                        | Stripping length             | nominal                     | 18 mm |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H10.0/18</a>    |       |
|                                        | Cross-section for conductor connection | Type                         | fine-wired                  |       |
|                                        |                                        | nominal                      | 16 mm <sup>2</sup>          |       |
| wire end ferrule                       | Stripping length                       | nominal                      | 21 mm                       |       |
|                                        | Recommended wire-end ferrule           | <a href="#">H16.0/28 GN</a>  |                             |       |
|                                        | Stripping length                       | nominal                      | 18 mm                       |       |
|                                        | Recommended wire-end ferrule           | <a href="#">H16.0/18</a>     |                             |       |
| Cross-section for conductor connection | Type                                   | fine-wired                   |                             |       |
|                                        | nominal                                | 1.5 mm <sup>2</sup>          |                             |       |
| wire end ferrule                       | Stripping length                       | nominal                      | 20 mm                       |       |
|                                        | Recommended wire-end ferrule           | <a href="#">H1.5/24 R</a>    |                             |       |
|                                        | Stripping length                       | nominal                      | 18 mm                       |       |
|                                        | Recommended wire-end ferrule           | <a href="#">H1.5/18</a>      |                             |       |

|                |                                                                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference text | Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P) |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**Technical data**
**Rated data acc. to IEC**

|                                                                          |         |                                                                              |         |
|--------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|---------|
| Rated current, min. number of poles<br>(Tu=20°C)                         | 101 A   | Rated current, max. number of poles<br>(Tu=20°C)                             | 101 A   |
| Rated current, min. number of poles<br>(Tu=40°C)                         | 94.5 A  | Rated current, max. number of poles<br>(Tu=40°C)                             | 90.1 A  |
| Rated voltage for surge voltage class /<br>pollution degree II/2         | 1,000 V | Rated voltage for surge voltage class /<br>pollution degree III/2            | 1,000 V |
| Rated voltage for surge voltage class /<br>pollution degree III/3        | 1,000 V | Rated impulse voltage for surge voltage<br>class/ pollution degree II/2      | 6 kV    |
| Rated impulse voltage for surge voltage<br>class/ pollution degree III/2 | 8 kV    | Rated impulse voltage for surge voltage<br>class/ contamination degree III/3 | 8 kV    |

**Rated data acc. to CSA**

|                                   |        |                                   |       |
|-----------------------------------|--------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 600 V  | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V  | Rated current (Use group B / CSA) | 57 A  |
| Rated current (Use group C / CSA) | 57 A   | Rated current (Use group D / CSA) | 5 A   |
| Wire cross-section, AWG, min.     | AWG 18 | Wire cross-section, AWG, max.     | AWG 4 |

**Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

|                                       |                                                                        |                                       |         |
|---------------------------------------|------------------------------------------------------------------------|---------------------------------------|---------|
| Rated voltage (Use group B / UL 1059) | 600 V                                                                  | Rated voltage (Use group C / UL 1059) | 600 V   |
| Rated voltage (Use group D / UL 1059) | 600 V                                                                  | Rated voltage (Use group E / UL 1059) | 1,000 V |
| Rated current (Use group B / UL 1059) | 57 A                                                                   | Rated current (Use group C / UL 1059) | 57 A    |
| Rated current (Use group D / UL 1059) | 5 A                                                                    | Rated current (Use group E / UL 1059) | 57 A    |
| Wire cross-section, AWG, min.         | AWG 18                                                                 | Wire cross-section, AWG, max.         | AWG 4   |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |         |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 269 mm |
| VPE width | 171 mm | VPE height | 44 mm  |

**Type tests**

|                              |            |                                                                          |
|------------------------------|------------|--------------------------------------------------------------------------|
| Test: Durability of markings | Test       | mark of origin, type identification, pitch, durability, stripping length |
|                              | Evaluation | available                                                                |

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**Technical data**

|                               |                |                                                                              |
|-------------------------------|----------------|------------------------------------------------------------------------------|
| Test: Clampable cross section | Standard       | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11 |
|                               | Conductor type | Type of conductor and H07V-U10 conductor cross-section                       |
|                               |                | Type of conductor and H07V-K10 conductor cross-section                       |
|                               |                | Type of conductor and H07V-U16 conductor cross-section                       |
|                               |                | Type of conductor and H07V-K16 conductor cross-section                       |
|                               |                | Type of conductor and AWG 4/1 conductor cross-section                        |
|                               |                | Type of conductor and AWG 4/19 conductor cross-section                       |
|                               |                | Type of conductor and solid 0.5 mm <sup>2</sup> conductor cross-section      |
|                               |                | Type of conductor and solid 16 mm <sup>2</sup> conductor cross-section       |
|                               |                | Type of conductor and stranded 0.5 mm <sup>2</sup> conductor cross-section   |
|                               |                | Type of conductor and stranded 16 mm <sup>2</sup> conductor cross-section    |
|                               |                | Type of conductor and AWG 20/1 conductor cross-section                       |
|                               |                | Type of conductor and AWG 20/19 conductor cross-section                      |
|                               | Evaluation     | passed                                                                       |

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|                                                           |                |                                                         |
|-----------------------------------------------------------|----------------|---------------------------------------------------------|
| Test for damage to and accidental loosening of conductors | Standard       | IEC 60999-1 section 9.4 / 11.99                         |
|                                                           | Requirement    | 0.3 kg                                                  |
|                                                           | Conductor type | Type of conductor and AWG 20/1 conductor cross-section  |
|                                                           |                | Type of conductor and AWG 20/19 conductor cross-section |
|                                                           |                | Type of conductor and AWG 4/7 conductor cross-section   |
|                                                           |                | Type of conductor and H05V-U0.5 conductor cross-section |
|                                                           |                | Type of conductor and H05V-K0.5 conductor cross-section |
|                                                           | Evaluation     | passed                                                  |
|                                                           | Requirement    | 2.9 kg                                                  |
|                                                           | Conductor type | Type of conductor and H07V-U16 conductor cross-section  |
|                                                           |                | Type of conductor and H07V-K16 conductor cross-section  |
|                                                           | Evaluation     | passed                                                  |
|                                                           | Requirement    | 4,5 kg                                                  |
|                                                           | Conductor type | Type of conductor and AWG 4/19 conductor cross-section  |
|                                                           | Evaluation     | passed                                                  |
| Pull-out test                                             | Standard       | IEC 60999-1 section 9.5 / 11.99                         |
|                                                           | Requirement    | ≥20 N                                                   |
|                                                           | Conductor type | Type of conductor and H05V-U0.5 conductor cross-section |
|                                                           |                | Type of conductor and H05V-K0.5 conductor cross-section |
|                                                           | Evaluation     | passed                                                  |
|                                                           | Requirement    | ≥30 N                                                   |
|                                                           | Conductor type | Type of conductor and AWG 20/1 conductor cross-section  |
|                                                           |                | Type of conductor and AWG 20/19 conductor cross-section |
|                                                           | Evaluation     | passed                                                  |
|                                                           | Requirement    | ≥100 N                                                  |
|                                                           | Conductor type | Type of conductor and AWG 4/7 conductor cross-section   |
|                                                           |                | Type of conductor and AWG 4/19 conductor cross-section  |
|                                                           |                | Type of conductor and H07V-U16 conductor cross-section  |
|                                                           |                | Type of conductor and H07V-K16 conductor cross-section  |
|                                                           | Evaluation     | passed                                                  |

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**Technical data**
**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0    | EC002643    |
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ETIM 10.0   | EC002643    | ECLASS 9.0  | 27-44-04-01 |
| ECLASS 9.1  | 27-44-04-01 | ECLASS 10.0 | 27-44-04-01 |
| ECLASS 11.0 | 27-46-01-01 | ECLASS 12.0 | 27-46-01-01 |
| ECLASS 13.0 | 27-46-01-01 | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 |             |             |

**Environmental Product Compliance**

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

**Important note**

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Notes          | <ul style="list-style-type: none"> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>• The test point can only be used as potential-pickup point.</li> <li>• The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

**Approvals**

Approvals



|                         |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                     |
| UL File Number Search   | UL Website                                                                                                                                                                  |
| Certificate No. (cURus) | E60693                                                                                                                                                                      |

## LUFS 15.00/05/180V 5.0SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
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Germany

[www.weidmueller.com](http://www.weidmueller.com)

# Technical data

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                     |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                     |
| Product Change Notification                 | <a href="#">20210909 Color Change of Actuator to LLF(S) and LUF(S) Family</a><br><a href="#">20210909 LLF(S) und LUF(S) Familie - Farbänderung des Betätigungselementes</a><br><a href="#">Optimierung des QR-Codes auf den Produkten der OMNIMATE Power Leiterplattenanschlussklemmen</a><br><a href="#">Optimization QR- Code on OMNIMATE POWER PCB Terminals</a> |
| User Documentation                          | <a href="#">QR-Code product handling video</a><br><a href="#">Assembly instruction_Montageanleitung_LLFS LUFS_EN_DE</a>                                                                                                                                                                                                                                             |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                            |

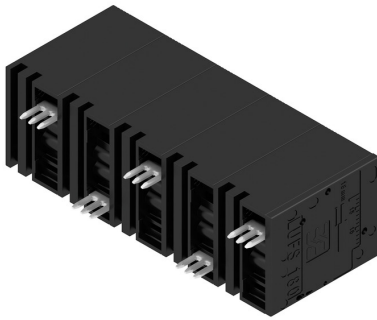
## LUFS 15.00/05/180V 5.0SN BK BX

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Klingenbergstraße 26  
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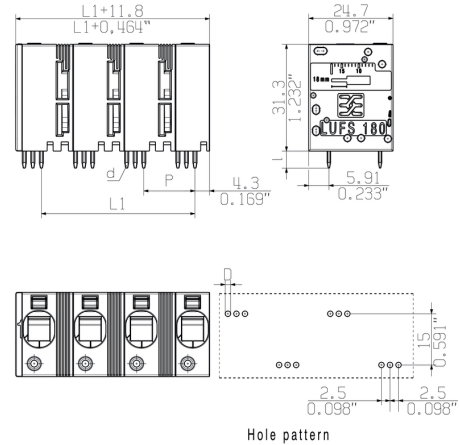
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

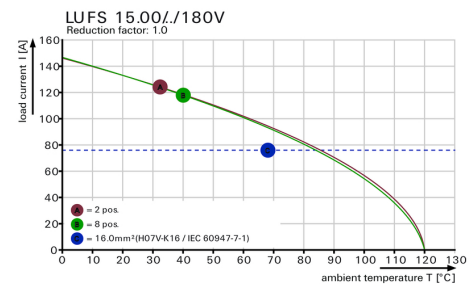
## Product image



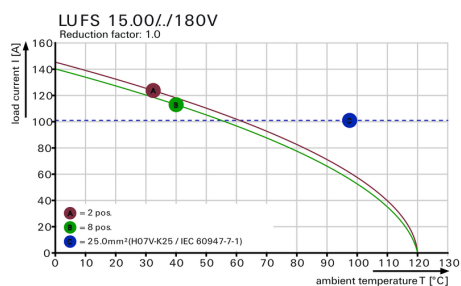
## Dimensional drawing



## Derating curve



## Derating curve



## Product benefits



Power up to UL 600 V  
Offset solder pins

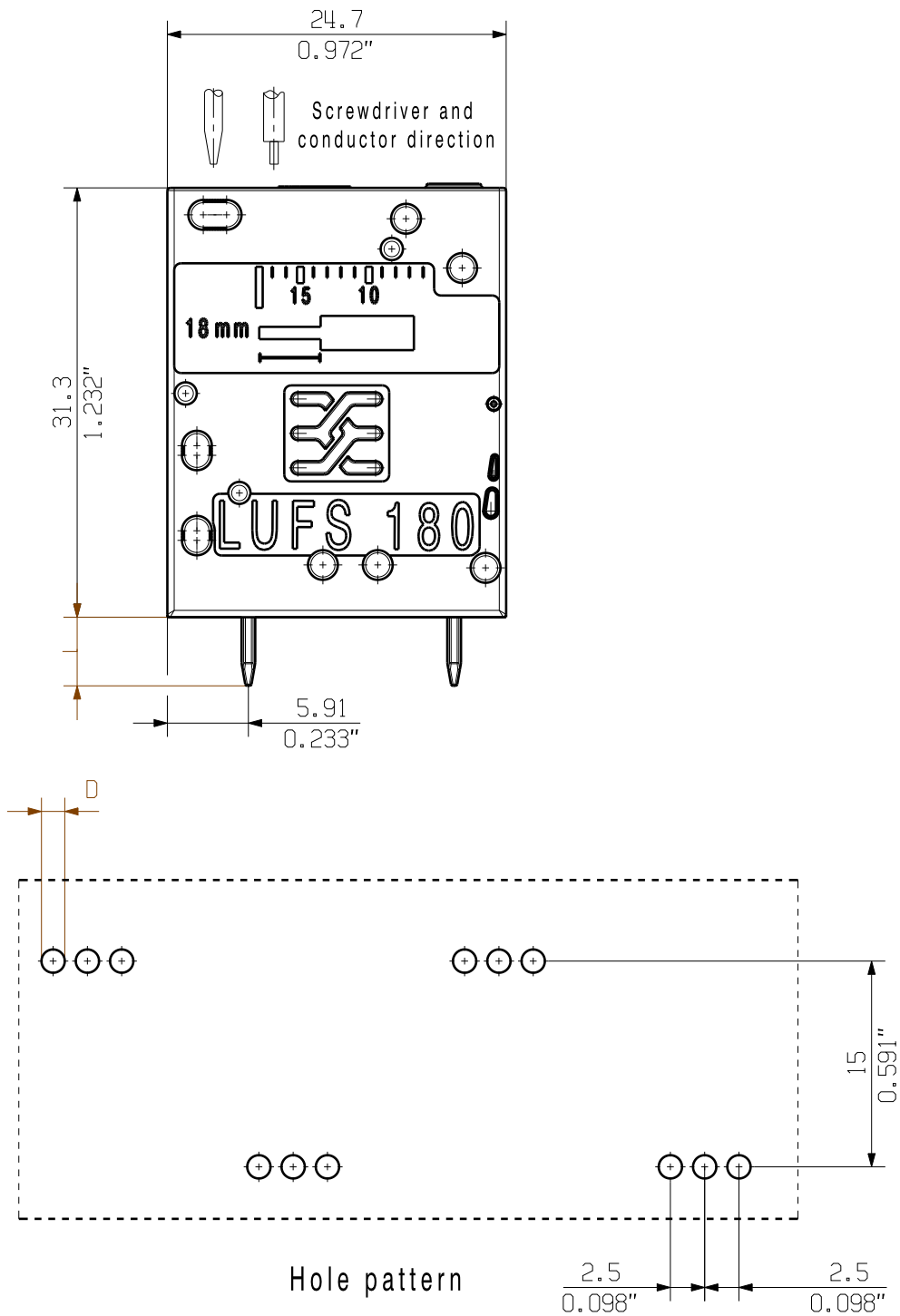
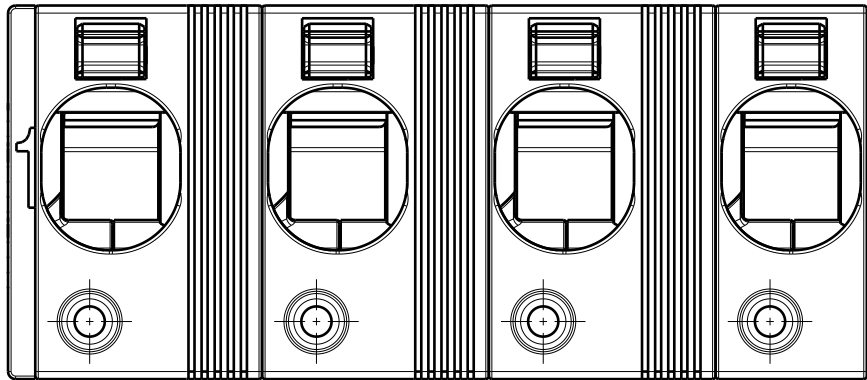
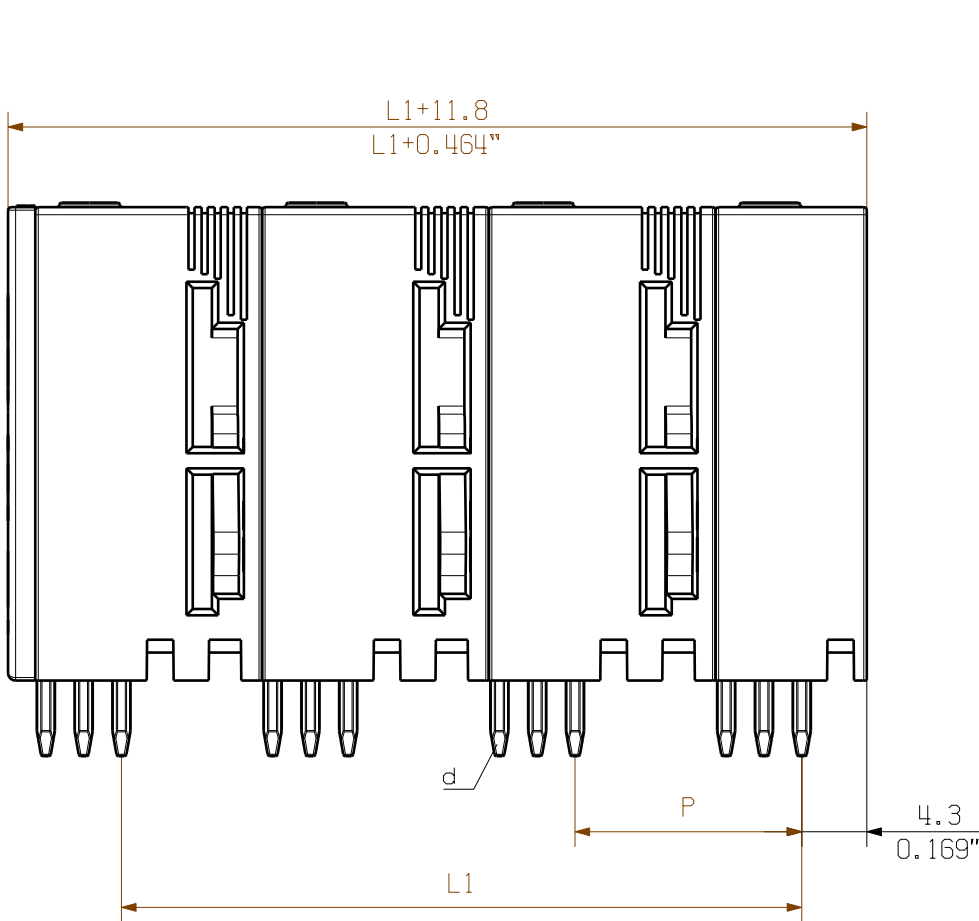
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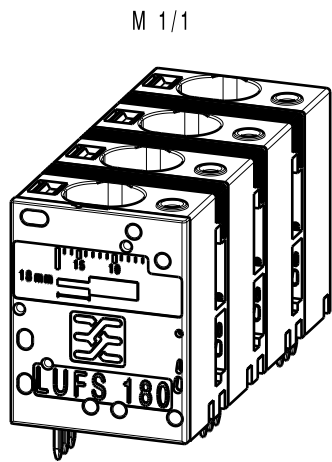
Dimensions without tolerances are no check dimensions

The English version is binding

Allgemeingültige Kundenzeichnung, aktueller Stand nur auf Anfrage  
General customer drawing, topical version only if required



P= 15.00 Pitch  
0,590" Raster  
D=  $\varnothing 1.7 +0.1$   
0.066"  
d=  $1.24 \times 1.2$   
 $0.049" \times 0.047"$   
l= 5.0  
0.197"



|                    |            |            |
|--------------------|------------|------------|
| 12                 | 165.00     | 6.496      |
| 11                 | 150.00     | 5.905      |
| 10                 | 135.00     | 5.314      |
| 9                  | 120.00     | 4.724      |
| 8                  | 105.00     | 4.133      |
| 7                  | 90.00      | 3.543      |
| 6                  | 75.00      | 0.952      |
| 5                  | 60.00      | 2.362      |
| 4                  | 45.00      | 1.771      |
| 3                  | 30.00      | 1.181      |
| 2                  | 15.00      | 0.590      |
| n Poles<br>Polzahl | L1<br>[mm] | L1<br>[mm] |

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.  
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.  
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

|                                       |  |                                 |            |            |                                  |
|---------------------------------------|--|---------------------------------|------------|------------|----------------------------------|
| General tolerance:<br>DIN ISO 2768-mK |  | 96560/4<br>23.04.18 KRECHT_M 01 |            | Cat.no.: . |                                  |
| RoHS COMPLIANT                        |  | Modification                    |            | Weidmüller |                                  |
| Scale: 5/1                            |  | Drawn                           | 27.10.2016 | KRECHT_M   | HO LUF 180<br>GEHÄUSE<br>HOUSING |
| Supersedes: .                         |  | Responsible                     |            | SCHMITZ_T  |                                  |
|                                       |  | Checked                         | 28.05.2018 | HELIS_MA   |                                  |
|                                       |  | Approved                        |            | NOLTE_S    | Product file: LUF 10.00          |

3 64092 04

Drawing no. Issue no.

Sheet 01 of 01 sheets

7412

## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.