

**BLZP 5.08HC/07/180F SN OR BX****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

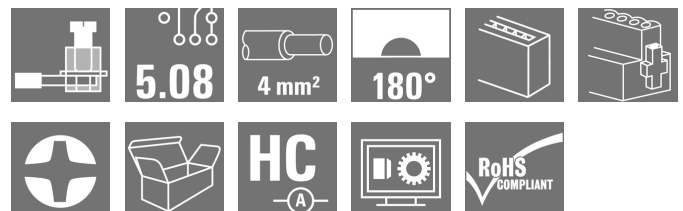
32760 Detmold

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Fax. +49 5231 14-2083

info@weidmueller.com

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**Product image**

Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

**General ordering data**

|              |                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7, 180°, Clamping yoke connection, Clamping range, max.: 4 mm², Box |
| Order No.    | <a href="#">1944140000</a>                                                                                                        |
| Type         | BLZP 5.08HC/07/180F SN OR BX                                                                                                      |
| GTIN (EAN)   | 4032248618729                                                                                                                     |
| Qty.         | 36 pc(s).                                                                                                                         |
| Product data | IEC: 400 V / 23 A / 0.2 - 4 mm²<br>UL: 300 V / 20 A / AWG 26 - AWG 12                                                             |
| Packaging    | Box                                                                                                                               |

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**Technical data****Dimensions and weights**

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 20 mm    | Depth (inches)  | 0.787 inch |
| Height     | 16.1 mm  | Height (inches) | 0.634 inch |
| Width      | 45.36 mm | Width (inches)  | 1.786 inch |
| Net weight | 4.24 g   |                 |            |

**System Parameters**

|                                              |                                        |                   |              |
|----------------------------------------------|----------------------------------------|-------------------|--------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.08    |                   |              |
| Type of connection                           | Field connection                       |                   |              |
| Wire connection method                       | Clamping yoke connection               |                   |              |
| Pitch in mm (P)                              | 5.08 mm                                |                   |              |
| Pitch in inches (P)                          | 0.2 inch                               |                   |              |
| Conductor outlet direction                   | 180°                                   |                   |              |
| Number of poles                              | 7                                      |                   |              |
| L1 in mm                                     | 30.48 mm                               |                   |              |
| L1 in inches                                 | 1.2 inch                               |                   |              |
| Number of rows                               | 1                                      |                   |              |
| Pin series quantity                          | 1                                      |                   |              |
| Rated cross-section                          | 4 mm <sup>2</sup>                      |                   |              |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch                 |                   |              |
| Protection degree                            | IP20                                   |                   |              |
| Volume resistance                            | ≤5 mΩ                                  |                   |              |
| Can be coded                                 | Yes                                    |                   |              |
| Stripping length                             | 7 mm                                   |                   |              |
| Clamping screw                               | M 2.5                                  |                   |              |
| Screwdriver blade                            | 0.6 x 3.5, PH 1, PZ 1                  |                   |              |
| Screwdriver blade standard                   | DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ |                   |              |
| Plugging cycles                              | 25                                     |                   |              |
| Plugging force/pole, max.                    | 10 N                                   |                   |              |
| Pulling force/pole, max.                     | 9 N                                    |                   |              |
| Tightening torque                            | Torque type                            | Wire connection   |              |
|                                              | Usage information                      | Tightening torque | min. 0.4 Nm  |
|                                              |                                        |                   | max. 0.5 Nm  |
|                                              | Torque type                            | Screw flange      |              |
|                                              | Usage information                      | Tightening torque | min. 0.2 Nm  |
|                                              |                                        |                   | max. 0.25 Nm |

**Material data**

|                                       |                            |                                       |        |
|---------------------------------------|----------------------------|---------------------------------------|--------|
| Insulating material                   | PBT                        | Colour                                | orange |
| Colour chart (similar)                | RAL 2000                   | Insulating material group             | IIIa   |
| Comparative Tracking Index (CTI)      | ≥ 200                      | UL 94 flammability rating             | V-0    |
| Contact material                      | Copper alloy               | Contact surface                       | tinned |
| Layer structure of plug contact       | 4...8 µm Sn hot-dip tinned | Storage temperature, min.             | -40 °C |
| Storage temperature, max.             | 70 °C                      | Operating temperature, min.           | -50 °C |
| Operating temperature, max.           | 100 °C                     | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 100 °C                     |                                       |        |

**Conductors suitable for connection**

|                                         |                      |
|-----------------------------------------|----------------------|
| Clamping range, min.                    | 0.13 mm <sup>2</sup> |
| Clamping range, max.                    | 4 mm <sup>2</sup>    |
| Wire connection cross section AWG, min. | AWG 30               |

Creation date September 17, 2022 7:32:09 PM CEST

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**Technical data**

|                                                                     |                                                                                                                                                                        |                              |                        |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|
| Wire connection cross section AWG, max.                             | AWG 12                                                                                                                                                                 |                              |                        |
| Solid, min. H05(07) V-U                                             | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                        |
| Solid, max. H05(07) V-U                                             | 4 mm <sup>2</sup>                                                                                                                                                      |                              |                        |
| Flexible, min. H05(07) V-K                                          | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                        |
| Flexible, max. H05(07) V-K                                          | 4 mm <sup>2</sup>                                                                                                                                                      |                              |                        |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min. |                                                                                                                                                                        |                              |                        |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                                                                                                                                                                        |                              |                        |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                        |
| w. wire end ferrule, DIN 46228 pt 1, max.                           | 4 mm <sup>2</sup>                                                                                                                                                      |                              |                        |
| Plug gauge in accordance with EN 60999 a x b; ø                     | 2.8 mm x 2.4 mm                                                                                                                                                        |                              |                        |
| Clampable conductor                                                 | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired             |
|                                                                     |                                                                                                                                                                        | nominal                      | 0.5 mm <sup>2</sup>    |
|                                                                     |                                                                                                                                                                        | Stripping length             | nominal 6 mm           |
|                                                                     | wire end ferrule                                                                                                                                                       | Recommended wire-end ferrule | <a href="#">H0.5/6</a> |
|                                                                     |                                                                                                                                                                        | Type                         | fine-wired             |
|                                                                     |                                                                                                                                                                        | nominal                      | 1 mm <sup>2</sup>      |
|                                                                     |                                                                                                                                                                        | Stripping length             | nominal 6 mm           |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a> |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired             |
|                                                                     |                                                                                                                                                                        | nominal                      | 1.5 mm <sup>2</sup>    |
|                                                                     |                                                                                                                                                                        | Stripping length             | nominal 7 mm           |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.5/7</a> |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired             |
|                                                                     |                                                                                                                                                                        | nominal                      | 2.5 mm <sup>2</sup>    |
|                                                                     |                                                                                                                                                                        | Stripping length             | nominal 7 mm           |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H2.5/7</a> |
| Reference text                                                      | The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage. |                              |                        |

**Rated data acc. to IEC**

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 23 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 18 A                   | Rated current, min. number of poles (Tu=40°C)                         | 21 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 16 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 400 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4,000 V                | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

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**Technical data****Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

www.weidmueller.com

200039-1121690

Rated voltage (Use group B / CSA) 300 V

Rated voltage (Use group C / CSA) 50 V

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group B / CSA) 20 A

Rated current (Use group D / CSA) 20 A

Wire cross-section, AWG, min. AWG 30

Wire cross-section, AWG, max.

Reference to approval values Specifications are maximum values, details - see approval certificate.

AWG 12

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 349 mm |
| VPE width | 135 mm | VPE height | 31 mm  |

**Type tests**

|                                              |                |                                                                                    |                              |
|----------------------------------------------|----------------|------------------------------------------------------------------------------------|------------------------------|
| Test: Durability of markings                 | Standard       | DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96   |                              |
|                                              | Test           | mark of origin, rated voltage, rated cross-section, type of material               |                              |
|                                              | Evaluation     | available                                                                          |                              |
|                                              | Test           | durability                                                                         |                              |
|                                              | Evaluation     | passed                                                                             |                              |
| Test: Misengagement (Non-interchangeability) | Standard       | DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06                                  |                              |
|                                              | Test           | 180° turned with coding elements                                                   |                              |
|                                              | Evaluation     | passed                                                                             |                              |
|                                              | Test           | visual examination                                                                 |                              |
|                                              | Evaluation     | passed                                                                             |                              |
| Test: Clampable cross section                | Standard       | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02 |                              |
|                                              | Conductor type | Type of conductor and conductor cross-section                                      | solid 0.2 mm <sup>2</sup>    |
|                                              |                | Type of conductor and conductor cross-section                                      | stranded 0.2 mm <sup>2</sup> |
|                                              |                | Type of conductor and conductor cross-section                                      | solid 2.5 mm <sup>2</sup>    |
|                                              |                | Type of conductor and conductor cross-section                                      | stranded 2.5 mm <sup>2</sup> |
|                                              |                | Type of conductor and conductor cross-section                                      | AWG 26/1                     |
|                                              |                | Type of conductor and conductor cross-section                                      | AWG 26/19                    |
|                                              | Evaluation     | passed                                                                             |                              |

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## Technical data

|                                                           |                |                                               |                              |
|-----------------------------------------------------------|----------------|-----------------------------------------------|------------------------------|
| Test for damage to and accidental loosening of conductors | Standard       | DIN EN 60999-1 section 9.4 / 12.00            |                              |
|                                                           | Requirement    | 0.2 kg info@weidmueller.com                   |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | AWG 26/1                     |
|                                                           |                | Type of conductor and conductor cross-section | AWG 26/19                    |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | 0.3 kg                                        |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm <sup>2</sup>    |
|                                                           |                | Type of conductor and conductor cross-section | stranded 0.5 mm <sup>2</sup> |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | 0.9 kg                                        |                              |
| Pull-out test                                             | Conductor type | Type of conductor and conductor cross-section | AWG 12/1                     |
|                                                           |                | Type of conductor and conductor cross-section | AWG 12/19                    |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Standard       | DIN EN 60999-1 section 9.5 / 12.00            |                              |
|                                                           | Requirement    | ≥10 N                                         |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | AWG 26/1                     |
|                                                           |                | Type of conductor and conductor cross-section | AWG 26/19                    |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | ≥20 N                                         |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5                    |
|                                                           |                | Type of conductor and conductor cross-section | H05V-K0.5                    |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | ≥60 N                                         |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | H07V-U4.0                    |
|                                                           |                | Type of conductor and conductor cross-section | H07V-K4.0                    |
|                                                           |                | Type of conductor and conductor cross-section | AWG 12/1                     |
|                                                           |                | Type of conductor and conductor cross-section | AWG 12/19                    |
|                                                           | Evaluation     | passed                                        |                              |

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**Technical data****Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ECLASS 9.0  | 27-44-03-09 |
| ECLASS 9.1  | 27-44-03-09 | ECLASS 10.0 | 27-44-03-09 |
| ECLASS 11.0 | 27-46-02-02 | ECLASS 12.0 | 27-46-02-02 |

**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>• Gold-plated contact surfaces 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>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

**Approvals**

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (UR)    | E60693     |
| Certificate No. (cURus) | E60693     |

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**Technical data****Downloads**

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Approval/Certificate/Document of Conformity | <a href="#">CB Certificate</a><br><a href="#">CB Testreport</a><br><a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Product Change Notification                 | <a href="#">20220106 BLT and BLZP in pitch 5.0x – Addition of a screw locking</a><br><a href="#">20220106 BLT und BLZP im Raster 5.0x – Ergänzung einer Schraubensicherung</a>                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Brochures                                   | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FL INDUSTR.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL INVERTER EN</a><br><a href="#">FL_BASE_STATION_EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a><br><a href="#">PO OMNIMATE EN</a> |  |

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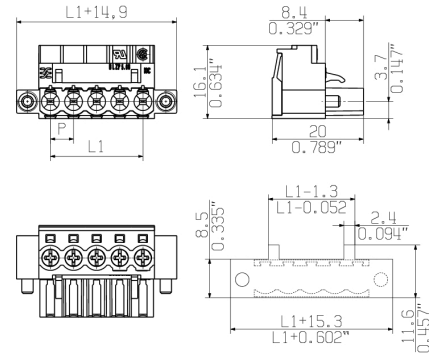
Fax. +49 5231 14-2083

# Drawings

info@weidmueller.com

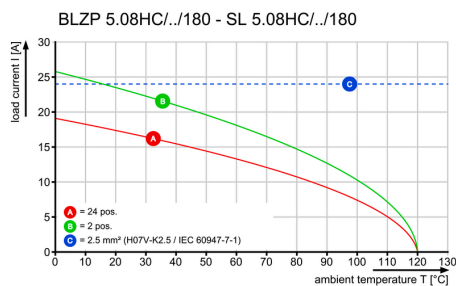
## Product image

## Dimensional drawing



MIN. FRONT PLATE CUT-OUT

## Graph



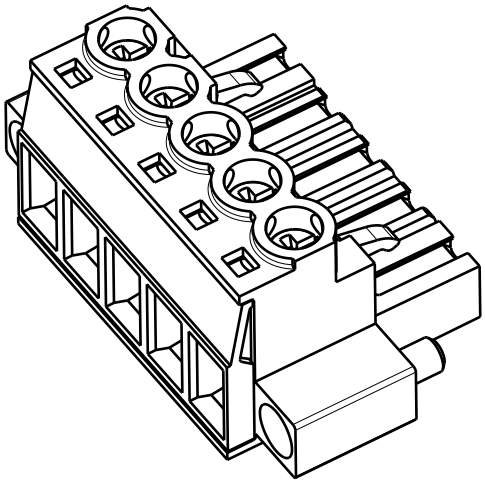
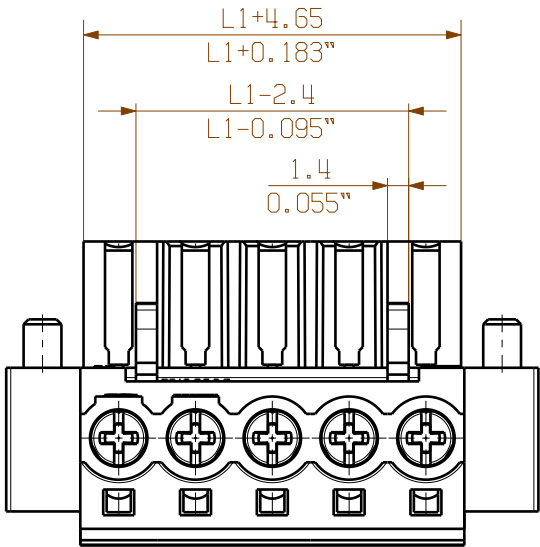
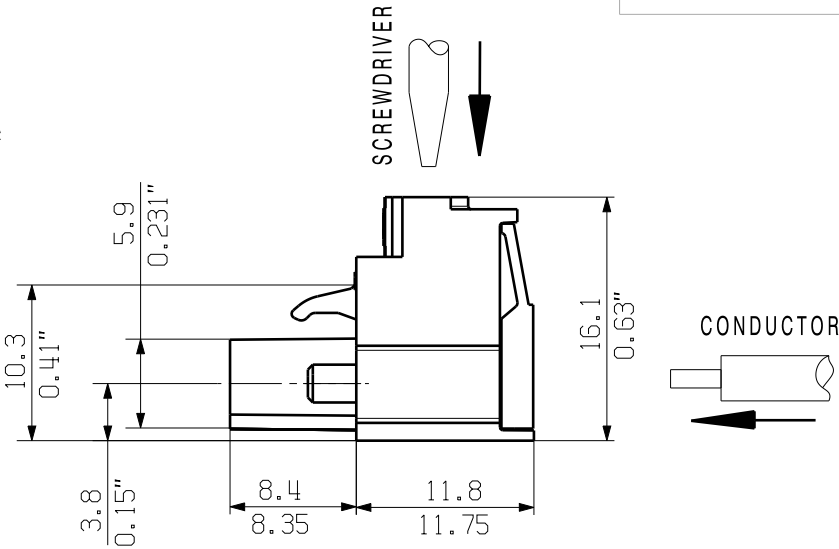
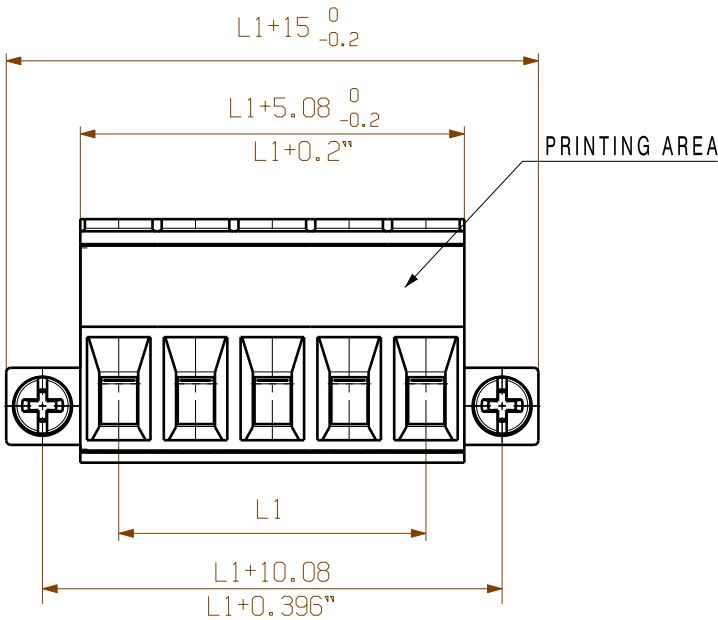


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MASS E OHNE TOLERANZ SIND KEINE PRUEFMASS E  
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH  
THE GERMAN VERSION IS BINDING



|    |         |           |
|----|---------|-----------|
| 24 | 116,84  | 4,600     |
| 23 | 111,76  | 4,400     |
| 22 | 106,68  | 4,200     |
| 21 | 101,60  | 4,000     |
| 20 | 96,52   | 3,800     |
| 19 | 91,44   | 3,600     |
| 18 | 86,36   | 3,400     |
| 17 | 81,28   | 3,200     |
| 16 | 76,20   | 3,000     |
| 15 | 71,12   | 2,800     |
| 14 | 66,04   | 2,600     |
| 13 | 60,96   | 2,400     |
| 12 | 55,88   | 2,200     |
| 11 | 50,80   | 2,000     |
| 10 | 45,72   | 1,800     |
| 9  | 40,64   | 1,600     |
| 8  | 35,56   | 1,400     |
| 7  | 30,48   | 1,200     |
| 6  | 25,40   | 1,000     |
| 5  | 20,32   | 0,800     |
| 4  | 15,24   | 0,600     |
| 3  | 10,16   | 0,400     |
| 2  | 5,08    | 0,200     |
| n  | L1 [mm] | L1 [Inch] |

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

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

SHOWN: BLZP 5.08HC/05/180 F

|               |                                 |            |            |                                                                |
|---------------|---------------------------------|------------|------------|----------------------------------------------------------------|
|               | 78302/4<br>08.04.15 HERTEL_S 01 |            | CAT.NO.: . |                                                                |
|               | MODIFICATION                    |            |            |                                                                |
|               | DRAWN                           | 05.09.2005 | NAME       | <b>BLZP 5.08HC/.../180...</b><br>BUCHSENLEISTE<br>SOCKET BLOCK |
|               | RESPONSIBLE                     |            | NAME       |                                                                |
| SCALE: 2/1    | CHECKED                         | 27.04.2015 | HERTEL_S   |                                                                |
| SUPERSEDES: . | APPROVED                        |            | LANG_T     | 7157                                                           |

CAT.NO.: .

**C 39784** 09

DRAWING NO. SHEET 03 OF 04 SHEETS