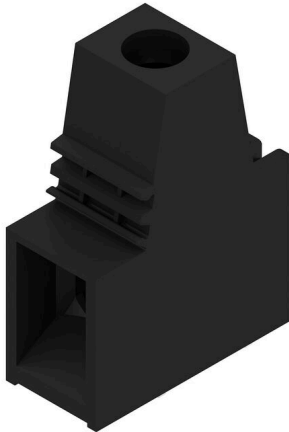


## LX 15.00/01/90 4.5SN BK BX

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

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### Product image



High-performance PCB terminal with proven clamping yoke connection at 15.00 mm pitch, conductor outlet direction in 90° design. Version and test point.

### General ordering data

|              |  |
|--------------|--|
| Version      | Printed circuit board terminals, 15.00 mm, Number of poles: 1, 90°, Solder pin length (l): 4.5 mm, tinned, black, Clamping yoke connection, Clamping range, max. : 25 mm², Box |
| Order No.    | <a href="#">1226460000</a>   |
| Type         | LX 15.00/01/90 4.5SN BK BX   |
| GTIN (EAN)   | 4050118011098  |
| Qty.         | 20 items   |
| Product data | IEC: 1000 V / 101 A / 1.5 - 25 mm²<br>UL: 600 V / 85 A / AWG 16 - AWG 4  |
| Packaging    | Box  |

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## Technical data

## Approvals

Approvals



|                       |                            |
|-----------------------|----------------------------|
| ROHS                  | Conform                    |
| UL File Number Search | <a href="#">UL Website</a> |
| Certificate No. (UR)  | E60693                     |

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 29.1 mm     | Depth (inches)  | 1.1457 inch |
| Height                   | 41.5 mm     | Height (inches) | 1.6339 inch |
| Height of lowest version | 37 mm       | Width           | 13 mm       |
| Width (inches)           | 0.5118 inch | Net weight      | 17.5 g      |

## Environmental Product Compliance

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

## System parameters

|  |                            |  |                          |
|--|----------------------------|--|--------------------------|
| Product family                             | OMNIMATE Power - series LX | Wire connection method                       | Clamping yoke connection |
| Mounting onto the PCB                      | THT solder connection      | Conductor outlet direction                   | 90°                      |
| Pitch in mm (P)                            | 15.00 mm                   | Pitch in inches (P)                          | 0.591 "                  |
| Number of poles                            | 1                          | Pin series quantity                          | 1                        |
| Fitted by customer                         | No                         | Number of rows                               | 1                        |
| Max. adjacent poles per row                | 10                         | Solder pin length (l)                        | 4.5 mm                   |
| Solder pin dimensions                      | 1.2 x 1.2 mm               | Solder eyelet hole diameter (D)              | 1.6 mm                   |
| Solder eyelet hole diameter tolerance (D)+ | 0,1 mm                     | Number of solder pins per pole               | 4                        |
| Screwdriver blade                          | 1.0 x 5.5                  | Screwdriver blade standard                   | DIN 5264                 |
| Tightening torque, min.                    | 2.4 Nm                     | Tightening torque, max.                      | 4 Nm                     |
| Clamping screw                             | M 5                        | Stripping length                             | 16 mm                    |
| L1 in mm                                   | 0.00 mm                    | L1 in inches                                 | 0.000 "                  |
| Touch-safe protection acc. to DIN VDE 0470 | IP 10                      | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch   |
| Protection degree                          | IP20                       | Volume resistance                            | 0.50 mΩ                  |

## Material data

|                                       |            |                                       |                                  |
|---------------------------------------|------------|---------------------------------------|----------------------------------|
| Insulating material                   | Wemid (PA) | Colour                                | black                            |
| Colour chart (similar)                | RAL 9011   | Insulating material group             | I                                |
| Comparative Tracking Index (CTI)      | ≥ 600      | Moisture Level (MSL)                  |                                  |
| UL 94 flammability rating             | V-0        | Contact material                      | Cu-alloy                         |
| Contact surface                       | tinned     | Layer structure of solder connection  | 1.5...3 μm Ni / 4...6 μm Sn matt |
| Storage temperature, min.             | -40 °C     | Storage temperature, max.             | 70 °C                            |
| Operating temperature, min.           | -50 °C     | Operating temperature, max.           | 120 °C                           |
| Temperature range, installation, min. | -25 °C     | Temperature range, installation, max. | 120 °C                           |

## Conductors suitable for connection

|                      |                      |
|----------------------|----------------------|
| Clamping range, min. | 1.31 mm <sup>2</sup> |
| Clamping range, max. | 25 mm <sup>2</sup>   |

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## Technical data

|   |  |                              |                          |       |  |
|---|--|------------------------------|--------------------------|-------|--|
| Wire connection cross section AWG, min.         | AWG 16                                 |                              |                          |       |  |
| Wire connection cross section AWG, max.         | AWG 4                                  |                              |                          |       |  |
| Solid, min. H05(07) V-U                         | 1.5 mm <sup>2</sup>                    |                              |                          |       |  |
| Solid, max. H05(07) V-U                         | 16 mm <sup>2</sup>                     |                              |                          |       |  |
| Stranded, min. H07V-R                           | 6 mm <sup>2</sup>                      |                              |                          |       |  |
| Stranded, max. H07V-R                           | 25 mm <sup>2</sup>                     |                              |                          |       |  |
| Flexible, min. H05(07) V-K                      | 1.5 mm <sup>2</sup>                    |                              |                          |       |  |
| Flexible, max. H05(07) V-K                      | 25 mm <sup>2</sup>                     |                              |                          |       |  |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 1.5 mm <sup>2</sup>                    |                              |                          |       |  |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 16 mm <sup>2</sup>                     |                              |                          |       |  |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 1.5 mm <sup>2</sup>                    |                              |                          |       |  |
| w. wire end ferrule, DIN 46228 pt 1, max.       | 16 mm <sup>2</sup>                     |                              |                          |       |  |
| Plug gauge in accordance with EN 60999 a x b; ø | 6.9 mm x 6.9 mm                        |                              |                          |       |  |
| Clampable conductor                             | Cross-section for conductor connection | Type                         | fine-wired               |       |  |
|   |  | nominal                      | 4 mm <sup>2</sup>        |       |  |
|   | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |  |
|   |  | Recommended wire-end ferrule | <a href="#">H4.0/15</a>  |       |  |
|   | Cross-section for conductor connection | Type                         | fine-wired               |       |  |
|   |  | nominal                      | 6 mm <sup>2</sup>        |       |  |
|   | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |  |
|   |  | Recommended wire-end ferrule | <a href="#">H6.0/15</a>  |       |  |
|   | Cross-section for conductor connection | Type                         | fine-wired               |       |  |
|   |  | nominal                      | 10 mm <sup>2</sup>       |       |  |
|   | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |  |
|   |  | Recommended wire-end ferrule | <a href="#">H10.0/15</a> |       |  |
|   | Cross-section for conductor connection | Type                         | fine-wired               |       |  |
|   |  | nominal                      | 16 mm <sup>2</sup>       |       |  |
|   | wire end ferrule                       | Stripping length             | nominal                  | 15 mm |  |
|   |  | Recommended wire-end ferrule | <a href="#">H16.0/15</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)

### Rated data acc. to IEC

|   |                        |   |                    |
|---|------------------------|---|--------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 101 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 101 A                  | Rated current, min. number of poles (Tu=40°C)                         | 101 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 101 A                  | Rated voltage for surge voltage class / pollution degree II/2         | 1000 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 1000 V                 | Rated voltage for surge voltage class / pollution degree III/3        | 1000 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 6 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV               |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV                   | Short-time withstand current resistance                               | 3 x 1 s mit 1000 A |

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**Technical data**

**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) | 85 A  |
| Rated current (Use group C / CSA) | 85 A   | Rated current (Use group D / CSA) | 5 A   |
| Wire cross-section, AWG, min.     | AWG 16 | Wire cross-section, AWG, max.     | AWG 4 |

**Rated data acc. to UL 1059**

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (UR)                        | UR   | Certificate No. (UR)                  | 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 current (Use group B / UL 1059) | 85 A   |
| Rated current (Use group C / UL 1059) | 85 A   | Rated current (Use group D / UL 1059) | 5 A    |
| Wire cross-section, AWG, min.         | AWG 16   | Wire cross-section, AWG, max.         | AWG 4  |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |        |

**Packing**

|           |          |            |           |
|-----------|----------|------------|-----------|
| Packaging | Box      | VPE length | 154.00 mm |
| VPE width | 64.00 mm | VPE height | 59.00 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, type identification, pitch, approval marking CSA, approval marking UL, type of material, durability |                              |  |
|   | Evaluation     | available   |                              |  |
| Test: Clampable cross section                             | Standard       | DIN EN 60999 section 6 and 8.1 / 04.94, DIN EN 60947-1 section 8.2.4.5.1 / 12.99                                    |                              |  |
|   | Conductor type | Type of conductor and conductor cross-section   | solid 1.5 mm <sup>2</sup>    |  |
|   |                | Type of conductor and conductor cross-section   | stranded 1.5 mm <sup>2</sup> |  |
|   |                | Type of conductor and conductor cross-section   | solid 16 mm <sup>2</sup>     |  |
|   |                | Type of conductor and conductor cross-section   | stranded 25 mm <sup>2</sup>  |  |
|   |                | Type of conductor and conductor cross-section   | AWG 16/1                     |  |
|   |                | Type of conductor and conductor cross-section   | AWG 16/ stranded             |  |
|   |                | Type of conductor and conductor cross-section   | AWG 4/1                      |  |
|   |                | Type of conductor and conductor cross-section   | AWG 4/ stranded              |  |
| Evaluation  | passed         |   |                              |  |
| Test for damage to and accidental loosening of conductors | Standard       | DIN EN 60999 section 8.4 / 04.94  |                              |  |
|   | Requirement    | 0.4 kg  |                              |  |

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**Technical data**

|                |   |   |   |                                  |
|----------------|---|---|---|----------------------------------|
|                | Conductor type                                | Type of conductor and conductor cross-section | solid 1.5 mm <sup>2</sup>                     |                                  |
|                |   | Type of conductor and conductor cross-section | stranded 1.5 mm <sup>2</sup>                  |                                  |
|                |   | Type of conductor and conductor cross-section | AWG 16/7                                      |                                  |
|                |   | Type of conductor and conductor cross-section | AWG 16/19                                     |                                  |
|                | Evaluation                                    | passed  |   |                                  |
|                | Requirement                                   | 4,5 kg  |   |                                  |
|                | Pull-out test                                 | Conductor type                                | Type of conductor and conductor cross-section | AWG 4/ stranded                  |
|                |   |   | Evaluation                                    | passed                           |
|                |   |   | Standard                                      | DIN EN 60999 section 8.5 / 04.94 |
|                |   |   | Requirement                                   | ≥40 N                            |
| Conductor type |   | Type of conductor and conductor cross-section | H05V-U1.5                                     |                                  |
|                |   | Type of conductor and conductor cross-section | H05V-K1.5                                     |                                  |
|                |   | Type of conductor and conductor cross-section | AWG 16/7                                      |                                  |
|                |   | Type of conductor and conductor cross-section | AWG 16/19                                     |                                  |
| Evaluation     |   | passed  |   |                                  |
| Requirement    |   | ≥ 135 N                                       |   |                                  |
| Conductor type | Type of conductor and conductor cross-section | H05V-R25                                      |   |                                  |
|                | Type of conductor and conductor cross-section | H05V-K25                                      |   |                                  |
|                | Type of conductor and conductor cross-section | AWG 4/ stranded                               |   |                                  |
|                | Evaluation                                    | passed  |   |                                  |

**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**
- Additional variants on request
  - Rated current related to rated cross-section & min. No. of poles.
  - Wire end ferrule without plastic collar to DIN 46228/1
  - Wire end ferrule with plastic collar to DIN 46228/4
  - P on drawing = pitch
  - 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.
  - The test point can only be used as potential-pickup point.
  - Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

**Technical data**

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ETIM 10.0   | EC002643    | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 |             |             |

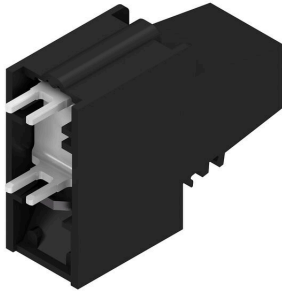
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Drawings

Product image



Dimensional drawing



Graph



Graph

