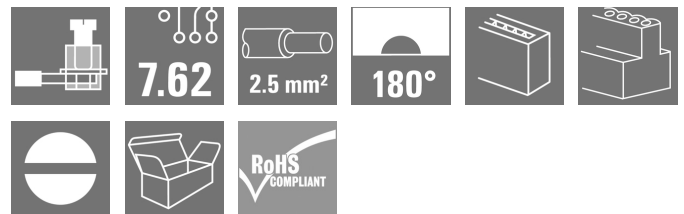


**BLZ 7.62/02/180 SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

Female plugs with clamping-yoke screw wire-connect system. The female plugs provide space for labelling and can be coded.

**General ordering data**

|                     |                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Version             | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| Order No.           | <a href="#">1623050000</a>                                                                                                            |
| Type                | BLZ 7.62/02/180 SN OR BX                                                                                                              |
| GTIN (EAN)          | 4008190194109                                                                                                                         |
| Qty.                | 100 pc(s).                                                                                                                            |
| Product data        | IEC: 800 V / 18.5 A / 0.2 - 2.5 mm²<br>UL: 300 V / 15 A / AWG 26 - AWG 12                                                             |
| Packaging           | Box                                                                                                                                   |
| Alternative product | <a href="#">1980480000</a>                                                                                                            |

Creation date April 22, 2025 5:26:15 PM CEST

Catalogue status 22.04.2025 / We reserve the right to make technical changes.

**BLZ 7.62/02/180 SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

|            |        |
|------------|--------|
| Net weight | 3.48 g |
|------------|--------|

**System Parameters**

|                         |                                     |                                              |                        |
|-------------------------|-------------------------------------|----------------------------------------------|------------------------|
| Product family          | OMNIMATE Signal - series BL/SL 7.62 | Type of connection                           | Field connection       |
| Wire connection method  | Clamping yoke connection            | Pitch in mm (P)                              | 7.62 mm                |
| Pitch in inches (P)     | 0.3 "                               | Conductor outlet direction                   | 180°                   |
| Number of poles         | 2                                   | L1 in mm                                     | 7.62 mm                |
| L1 in inches            | 0.3 "                               | Number of rows                               | 1                      |
| Pin series quantity     | 1                                   | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Volume resistance       | 4.50 mΩ                             | Can be coded                                 | Yes                    |
| Stripping length        | 7 mm                                | Tightening torque, min.                      | 0.4 Nm                 |
| Tightening torque, max. | 0.5 Nm                              | Clamping screw                               | M 2.5                  |
| Screwdriver blade       | 0.6 x 3.5                           | Screwdriver blade standard                   | DIN 5264               |
| Plugging cycles         | 25                                  | Pulling force/pole, max.                     | 2 N                    |

**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                      | Cu-alloy | Contact surface                       | 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.                            | 3.31 mm <sup>2</sup>                                                                                                                                                   |
| Wire connection cross section AWG, min.         | AWG 26                  | 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                         | 2.5 mm <sup>2</sup>                                                                                                                                                    |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>     | Flexible, max. H05(07) V-K                      | 2.5 mm <sup>2</sup>                                                                                                                                                    |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm <sup>2</sup>     | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup>                                                                                                                                                    |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.2 mm <sup>2</sup>     | w. wire end ferrule, DIN 46228 pt 1, max.       | 2.5 mm <sup>2</sup>                                                                                                                                                    |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.0 mm; 2.4 mm |                                                 |                                                                                                                                                                        |
|                                                 |                         | 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. |

## BLZ 7.62/02/180 SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 18.5 A            |
| Rated current, max. number of poles (Tu=20°C)                             | 17 A                   | Rated current, min. number of poles (Tu=40°C)                         | 16 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 14.5 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 800 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 630 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 500 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 | 6 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 6 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

## Rated data acc. to CSA

|                                   |                                                                                   |                                   |                |
|-----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 200039-1121690 |
| Rated voltage (Use group B / CSA) | 300 V                                                                             | Rated voltage (Use group D / CSA) | 300 V          |
| Rated current (Use group B / CSA) | 15 A                                                                              | Rated current (Use group D / CSA) | 10 A           |
| Wire cross-section, AWG, min.     | AWG 26                                                                            | Wire cross-section, AWG, max.     | AWG 12         |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.            |                                   |                |

## Rated data acc. to UL 1059

|                                       |                                                                                     |                                       |        |
|---------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|--------|
| Institute (UR)                        |  | Certificate No. (UR)                  | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V                                                                               | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 15 A                                                                                | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 26                                                                              | Wire cross-section, AWG, max.         | AWG 12 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## Packing

|           |       |            |        |
|-----------|-------|------------|--------|
| Packaging | Box   | VPE length | 138 mm |
| VPE width | 95 mm | VPE height | 77 mm  |

## Type tests

|                              |            |                                                                                                                        |
|------------------------------|------------|------------------------------------------------------------------------------------------------------------------------|
| Test: Durability of markings | Standard   | draft DIN VDE 0627 section 6.2.2 / 09.91                                                                               |
|                              | Test       | mark of origin, type identification, rated cross-section, rated voltage, pitch, approval marking SEV, type of material |
|                              | Evaluation | passed                                                                                                                 |
|                              | Test       | approval marking UL, approval marking CSA                                                                              |
|                              | Evaluation | on packaging label                                                                                                     |

**BLZ 7.62/02/180 SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data**

|                                              |                |                                                                                  |
|----------------------------------------------|----------------|----------------------------------------------------------------------------------|
| Test: Misengagement (Non-interchangeability) | Standard       | draft DIN VDE 0627 section 5.9.1 / 09.91, DIN IEC 60512 part 7 section 5 / 05.94 |
|                                              | Test           | 180° turned with coding elements                                                 |
|                                              | Evaluation     | passed                                                                           |
| 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 / 07.98 |
|                                              | Conductor type | Type of conductor and solid 0.08 mm <sup>2</sup> conductor cross-section         |
|                                              |                | Type of conductor and stranded 0.08 mm <sup>2</sup> conductor cross-section      |
|                                              |                | Type of conductor and solid 2.5 mm <sup>2</sup> conductor cross-section          |
|                                              |                | Type of conductor and stranded 2.5 mm <sup>2</sup> conductor cross-section       |
|                                              |                | Type of conductor and AWG 28/1 conductor cross-section                           |
|                                              |                | Type of conductor and AWG 28/19 conductor cross-section                          |
|                                              |                | Type of conductor and AWG 12/1 conductor cross-section                           |
|                                              |                | Type of conductor and AWG 12/19 conductor cross-section                          |
|                                              | Evaluation     | passed                                                                           |

## BLZ 7.62/02/180 SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

|                                                           |                |                                                                            |
|-----------------------------------------------------------|----------------|----------------------------------------------------------------------------|
| Test for damage to and accidental loosening of conductors | Standard       | DIN EN 60999 section 8.4 / 04.94                                           |
|                                                           | Requirement    | 0.2 kg                                                                     |
|                                                           | Conductor type | Type of conductor and AWG 28/1 conductor cross-section                     |
|                                                           |                | Type of conductor and AWG 28/7 conductor cross-section                     |
|                                                           | Evaluation     | passed                                                                     |
|                                                           | Requirement    | 0.3 kg                                                                     |
|                                                           | Conductor type | Type of conductor and solid 0.5 mm <sup>2</sup> conductor cross-section    |
|                                                           |                | Type of conductor and stranded 0.5 mm <sup>2</sup> conductor cross-section |
|                                                           | Evaluation     | passed                                                                     |
|                                                           | Requirement    | 0.7 kg                                                                     |
|                                                           | Conductor type | Type of conductor and solid 2.5 mm <sup>2</sup> conductor cross-section    |
|                                                           |                | Type of conductor and stranded 2.5 mm <sup>2</sup> conductor cross-section |
|                                                           | Evaluation     | passed                                                                     |
|                                                           | Requirement    | 0.9 kg                                                                     |
|                                                           | Conductor type | Type of conductor and AWG 12/1 conductor cross-section                     |
|                                                           |                | Type of conductor and AWG 12/19 conductor cross-section                    |
|                                                           | Evaluation     | passed                                                                     |
| Pull-out test                                             | Standard       | DIN EN 60999 section 8.5 / 04.94                                           |
|                                                           | Requirement    | ≥5 N                                                                       |
|                                                           | Conductor type | Type of conductor and AWG 28/1 conductor cross-section                     |
|                                                           |                | Type of conductor and AWG 28/7 conductor cross-section                     |
|                                                           | Evaluation     | passed                                                                     |
|                                                           | Requirement    | ≥50 N                                                                      |
|                                                           | Conductor type | Type of conductor and H07V-U2.5 conductor cross-section                    |
|                                                           |                | Type of conductor and H07V-K2.5 conductor cross-section                    |
|                                                           | Evaluation     | passed                                                                     |
|                                                           | Requirement    | ≥60 N                                                                      |
|                                                           | Conductor type | Type of conductor and AWG 12/1 conductor cross-section                     |
|                                                           |                | Type of conductor and AWG 12/19 conductor cross-section                    |
|                                                           | Evaluation     | passed                                                                     |

BLZ 7.62/02/180 SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ETIM 9.0    | EC002638    |
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 27-46-02-02 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 |             |             |

## 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>• 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>• In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</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_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/</a> |
| ROHS                  | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (UR)  | E60693                                                                                                                                                                                                                                                                                                                                                  |

Creation date April 22, 2025 5:26:15 PM CEST

Catalogue status 22.04.2025 / We reserve the right to make technical changes.

**BLZ 7.62/02/180 SN OR BX**

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

## Technical data

### Downloads

Approval/Certificate/Document of Con-  
formity

[Declaration of the Manufacturer](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

[FL DRIVES EN](#)

[MB DEVICE MANUF. EN](#)

[FL DRIVES DE](#)

[FL BUILDING SAFETY EN](#)

[FL APPL LED LIGHTING EN](#)

[FLIndustr.CONTROLS EN](#)

[FL MACHINE SAFETY EN](#)

[FL HEATING ELECTR EN](#)

[FL APPL INVERTER EN](#)

[FL\\_BASE\\_STATION\\_EN](#)

[FL ELEVATOR EN](#)

[FL POWER SUPPLY EN](#)

[FL 72H SAMPLE SER EN](#)

[PO OMNIMATE EN](#)

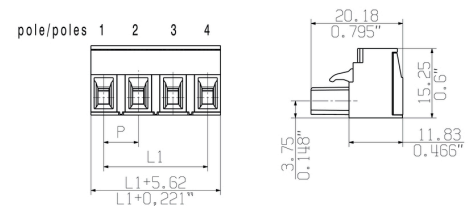
## BLZ 7.62/02/180 SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

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

# Drawings

## Dimensional drawing



## Derating curve

