

**LL 10.16/04/90 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

PCB terminal with proven clamping-yoke connection in 10 and 10.16 mm pitches, with 90° wire outlet angle. Suitable for conductor cross-sections up to 6.0 mm<sup>2</sup>.

**General ordering data**

|              |                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, 10.16 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| Order No.    | <a href="#">2613380000</a>                                                                                             |
| Type         | LL 10.16/04/90 3.2SN OR BX                                                                                             |
| GTIN (EAN)   | 4050118674903                                                                                                          |
| Qty.         | 50 pc(s).                                                                                                              |
| Product data | IEC: 1000 V / 32 A / 0.5 - 6 mm <sup>2</sup><br>UL: 300 V / AWG 26 - AWG 10                                            |
| Packaging    | Box                                                                                                                    |

Creation date June 12, 2025 12:51:19 PM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

## LL 10.16/04/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 11 mm   | Depth (inches)  | 0.433 inch |
| Height     | 20.3 mm | Height (inches) | 0.799 inch |
| Net weight | 6.776 g |                 |            |

## System parameters

|                                 |                             |                                                   |               |
|---------------------------------|-----------------------------|---------------------------------------------------|---------------|
| Product family                  | OMNIMATE Signal - series LL | Property, clamping point                          | WireReady     |
| Conductor outlet direction      | 90°                         | Pitch in mm (P)                                   | 10.16 mm      |
| Pitch in inches (P)             | 0.4 "                       | Number of poles                                   | 4             |
| Pin series quantity             | 1                           | Fitted by customer                                | Yes           |
| Number of rows                  | 1                           | Max. adjacent poles per row                       | 12            |
| Solder pin length (l)           | 3.2 mm                      | Solder pin dimensions                             | 0.75 x 0.9 mm |
| Solder eyelet hole diameter (D) | 1.3 mm                      | Solder eyelet hole diameter tolerance (D)+ 0,1 mm |               |
| Number of solder pins per pole  | 1                           | Screwdriver blade                                 | 0.6 x 3.5     |
| Screwdriver blade standard      | DIN 5264                    | Tightening torque, min.                           | 0.5 Nm        |
| Tightening torque, max.         | 0.6 Nm                      | Clamping screw                                    | M 3           |
| Stripping length                | 6 mm                        | L1 in mm                                          | 30.48 mm      |
| L1 in inches                    | 1.2 "                       | Touch-safe protection acc. to DIN VDE 0470        | IP 20         |
| Protection degree               | IP20                        |                                                   |               |

## Material data

|                                       |           |                                       |        |
|---------------------------------------|-----------|---------------------------------------|--------|
| Insulating material                   | Wemid     | Colour                                | orange |
| Colour chart (similar)                | RAL 2000  | UL 94 flammability rating             | V-0    |
| Contact material                      | Cu-alloy  | Contact surface                       | tinned |
| Coating                               | 4-6 µm SN | 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

|                                           |                                                                                                                                                                       |                                           |                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|
| Solid, min. H05(07) V-U                   | 0.5 mm <sup>2</sup>                                                                                                                                                   | Solid, max. H05(07) V-U                   | 6 mm <sup>2</sup>   |
| Flexible, min. H05(07) V-K                | 0.5 mm <sup>2</sup>                                                                                                                                                   | Flexible, max. H05(07) V-K                | 4 mm <sup>2</sup>   |
| w. wire end ferrule, DIN 46228 pt 1, min. | 2.5 mm <sup>2</sup>                                                                                                                                                   | w. wire end ferrule, DIN 46228 pt 1, max. | 0.5 mm <sup>2</sup> |
| 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) |                                           |                     |

## LL 10.16/04/90 3.2SN 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)                         | 32 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 32 A                   | Rated current, min. number of poles (Tu=40°C)                         | 32 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 30.5 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 1,000 V           |
| Rated voltage for surge voltage class / pollution degree III/2            | 1,000 V                | Rated voltage for surge voltage class / pollution degree III/3        | 630 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 8 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 1s with 120 A |

## Rated data acc. to CSA

|                              |                                                                                   |                       |                |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------|----------------|
| Institute (CSA)              |  | Certificate No. (CSA) | 200039-1202191 |
| 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                                                                               | Wire cross-section, AWG, min. | AWG 26                                                                 |
| Wire cross-section, AWG, max.         | AWG 10                                                                              | Reference to approval values  | Specifications are maximum values, details - see approval certificate. |

## Packing

|           |       |            |        |
|-----------|-------|------------|--------|
| Packaging | Box   | VPE length | 223 mm |
| VPE width | 66 mm | VPE height | 47 mm  |

## Type tests

|                              |            |                                                                                                              |
|------------------------------|------------|--------------------------------------------------------------------------------------------------------------|
| Test: Durability of markings | Test       | mark of origin, type identification, type of material, approval marking UL, approval marking CSA, durability |
|                              | Evaluation | available                                                                                                    |

## LL 10.16/04/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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 AWG 26/1 conductor cross-section                       |
|                                                           |                | Type of conductor and AWG 26/19 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                                                                       |
| Test for damage to and accidental loosening of conductors | Standard       | IEC 60999-1 section 9.4 / 11.99                                              |
|                                                           | Requirement    | 0.2 kg                                                                       |
|                                                           | Conductor type | Type of conductor and AWG 26/1 conductor cross-section                       |
|                                                           |                | Type of conductor and AWG 26/19 conductor cross-section                      |
|                                                           | Evaluation     | passed                                                                       |
|                                                           | Requirement    | 0.3 kg                                                                       |
|                                                           | 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    | 0.9 kg                                                                       |
|                                                           | Conductor type | Type of conductor and H07V-U4.0 conductor cross-section                      |
|                                                           |                | Type of conductor and H07V-K4.0 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                                                                       |

## LL 10.16/04/90 3.2SN OR BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

|               |                |                                                         |
|---------------|----------------|---------------------------------------------------------|
| Pull-out test | Standard       | IEC 60999-1 section 9.5 / 11.99                         |
|               | Requirement    | ≥10 N                                                   |
|               | Conductor type | Type of conductor and AWG 26/1 conductor cross-section  |
|               |                | Type of conductor and AWG 26/19 conductor cross-section |
|               | Evaluation     | passed                                                  |
|               | 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    | ≥60 N                                                   |
|               | Conductor type | Type of conductor and H07V-U4.0 conductor cross-section |
|               |                | Type of conductor and H07V-K4.0 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                                                  |

## 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>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>                                                                                                                                                                   |

**LL 10.16/04/90 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Technical data****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 |
|----------------------|--------|

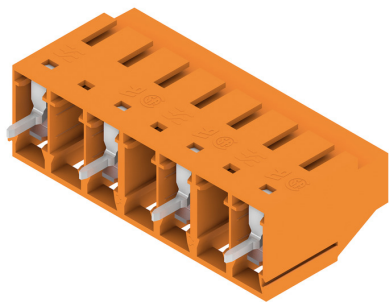
**Downloads**

|            |                                          |
|------------|------------------------------------------|
| Catalogues | <a href="#">Catalogues in PDF-format</a> |
|------------|------------------------------------------|

**LL 10.16/04/90 3.2SN OR BX**

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

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

**Drawings****Product image****Dimensional drawing**