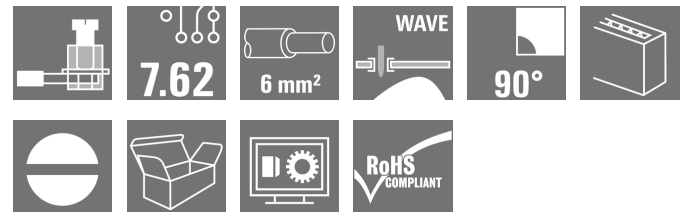


## OMNIMATE Signal - series LP LPP 7.62/02/90 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Test point, 1000 V, 32 A and 6 mm<sup>2</sup> conductor cross-section are feasible with this PCB terminal with proven clamping yoke connection at 7.50 and 7.62 mm pitch, conductor outlet direction 90° and 135°.

- 0.20 - 6.0mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 1000 V (IEC) / 300 V (UL)
- 32 A (IEC) / 20 A (UL)

### General ordering data

|              |   |
|--------------|---|
| Type         | LPP 7.62/02/90 3.2SN OR BX  |
| Order No.    | <a href="#">1594480000</a>  |
| Version      | PCB terminal, 7.62 mm, No. of poles: 2, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Clamping yoke connection, Clamping range, max.: 6 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4008190108298   |
| Qty.         | 100 pc(s).  |
| Product data | IEC: 1000 V / 32 A / 0.5 - 6 mm <sup>2</sup><br>UL: 300 V / 20 A / AWG 26 - AWG 12  |
| Packaging    | Box   |

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

Net weight 3.89 g

**System parameters**

|  |                             |  |                          |
|--|-----------------------------|--|--------------------------|
| Product family                             | OMNIMATE Signal - series LP | Wire connection method                       | Clamping yoke connection |
| Mounting onto the PCB                      | THT solder connection       | Conductor outlet direction                   | 90°                      |
| Pitch in mm (P)                            | 7.62 mm                     | Pitch in inches (P)                          | 0.3 inch                 |
| No. of poles                               | 2                           | Fitted by customer                           | Yes                      |
| Max. adjacent poles per row                | 16                          | 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                                   | 7.62 mm                     | L1 in inches                                 | 0.3 inch                 |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20                       | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch   |
| Volume resistance                          | 1.20 mΩ                     |  |                          |

**Material data**

|                                       |          |                                       |                       |
|---------------------------------------|----------|---------------------------------------|-----------------------|
| Insulating material                   | PA       | Colour                                | Orange                |
| Colour chart (similar)                | RAL 2000 | Insulating material group             | I                     |
| CTI                                   | ≥ 600    | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω   |
| UL 94 flammability rating             | V-2      | Contact material                      | Copper alloy          |
| Contact surface                       | tinned   | Coating                               | 1-3 μm Ni, 4-6 μm Sn  |
| Tinning type                          | matt     | Layer structure of solder connection  | 4-6 μm Ni / 4-6 μm Sn |
| Storage temperature, min.             | -25 °C   | Storage temperature, max.             | 55 °C                 |
| Max. relative humidity during storage | 80 %     | 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.                            | 6 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                         | 0.5 mm <sup>2</sup>  | Solid, max. H05(07) V-U                         | 6 mm <sup>2</sup>       |
| Stranded, max. H07V-R                           | 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. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 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.       | 0.5 mm <sup>2</sup>     |
| w. wire end ferrule, DIN 46228 pt 1, max.       | 2.5 mm <sup>2</sup>  | Plug gauge acc. to EN 60999 a x b; Ø            | 2.8 mm x 2.4 mm; 3.0 mm |

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## Technical data


### Rated data acc. to IEC

|   |                        |   |                   |
|---|------------------------|---|-------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Ta = 20°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 20°C)                              | 32 A                   | Rated current, min. no. of poles (Ta = 40°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 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            | 500 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)         | 200039-1202191 |
| Rated voltage (Use group B)   | 300 V   | Rated voltage (use group D)   | 300 V          |
| Rated current (use group B)   | 20 A  | Rated current (use group D)   | 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)   | 300 V   | Rated voltage (use group D)   | 300 V  |
| Rated current (use group B)   | 20 A  | Rated current (use group D)   | 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.              |                               |        |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001284    | ETIM 4.0   | EC002643    |
| ETIM 5.0   | EC002643    | ETIM 6.0   | EC002643    |
| UNSPSC     | 30-21-18-01 | eClass 6.2 | 27-26-11-01 |
| eClass 7.1 | 27-44-04-01 | eClass 8.1 | 27-44-04-01 |
| eClass 9.0 | 27-44-04-01 | eClass 9.1 | 27-44-04-01 |

**Data sheet**

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**Technical data**

**Notes**

|                |   |
|----------------|---|
| Notes          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>• The test point can only be used as potential-pickup point.</li> <li>• It is necessary to hold the insulating body of the one or two pole terminal when tightening the screw</li> </ul> |
| IPC conformity | The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.  |

**Approvals**

Approvals



ROHS Conform

**Downloads**

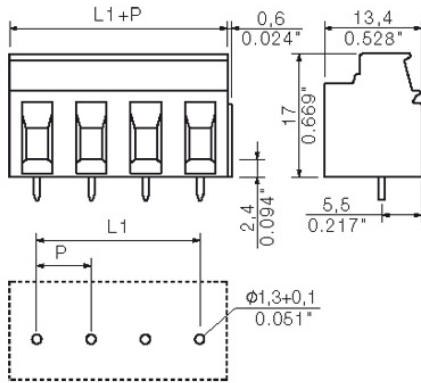
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>   |
| Brochure/Catalogue                          | <a href="#">FL DRIVES EN</a><br><a href="#">FL ANALO.SIGN.CONV. EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">CAT 2 PORTFOLIOGUIDE EN</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FLIndustr.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTRN 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> |
| Engineering Data                            | <a href="#">EPLAN.WSCAD</a>   |

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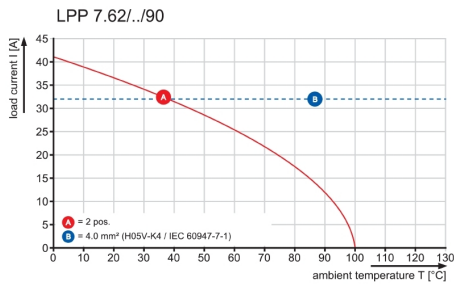
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**Drawings**

**Dimensional drawing**



**Graph**



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**Accessories****Intermediate plates****The maximum voltage is based on the minimum distance.**

Intermediate plates increase the creepage and clearance distances between different potentials and permit higher rated voltages or a clear separation, e.g. between mains and low voltages or different protection zones. The dovetail joint enables easy installation and guarantees a secure fit. Other characteristics include:

- Pitch extended by 1.27 or 2.54mm - all other combinations possible
- Colour coding ensures visual differentiation
- Different geometries for standard designs.

Incomplete individual assemblies avoided because separate terminal blocks combine to form a single holistic unit. Ready-assembled on request.

The advantages: efficient processing, increased stability, improved reliability.

**General ordering data**

| Delivery status | Available until           | Type            | Order No.                  | Version  | GTIN (EAN)    | Qty.          |
|-----------------|---------------------------|-----------------|----------------------------|--|---------------|---------------|
| Discontinued    | 2016-04-08T00:00:00+02:00 | LPZP 1.27/90 SW | <a href="#">1747510000</a> | PCB terminal, Accessories, Intermediate plate, Black, No. of poles: 1  | 4008190992194 | 100 pc(s)     |
|                 |                           | LPZP 2.54/90 SW | <a href="#">1747500000</a> | PCB terminal, Accessories, Intermediate plate, Black, No. of poles: 1  | 4008190992187 | 100 pc(s) Box |
|                 |                           | LPZP 2.54/90 OR | <a href="#">1747480000</a> | PCB terminal, Accessories, Intermediate plate, Orange, No. of poles: 1 | 4008190992163 | 100 pc(s) Box |
|                 |                           | LPZP 1.27/90 OR | <a href="#">1747490000</a> | PCB terminal, Accessories, Intermediate plate, Orange, No. of poles: 1 | 4008190992170 | 100 pc(s) Box |

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**Accessories**
**Mounting blocks**

**Minor component, major effect:**

Clip-on attachment elements increase the mechanical resilience of the circuit board terminals.

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

**General ordering data**

| Type         | Order No.                  | Version  | GTIN (EAN)                 | Qty.  | Product data  | Packaging     |
|--------------|----------------------------|--|----------------------------|---|---------------|---------------|
| LPBB MU OR   | <a href="#">1747530000</a> | PCB terminal, Accessories,<br>Mounting block, Orange,<br>No. of poles: 1 | 4008190992217              | 100 pc(s).  | UL:           | Box           |
| Discontinued | 2014-05-20T00:00:00+02:00  | LPBB MU SW   | <a href="#">1747550000</a> | PCB terminal,<br>Accessories,<br>Mounting block,<br>Black, No. of<br>poles: 1 | 4008190992231 | 100<br>pc(s). |
| Discontinued | 2010-05-12T00:00:00+02:00  | LPBB SW  | <a href="#">1747560000</a> | PCB terminal,<br>Accessories,<br>Mounting block,<br>Black, No. of<br>poles: 1 | 4008190992248 | 100<br>pc(s). |
| LPBB OR      | <a href="#">1747540000</a> | PCB terminal, Accessories,<br>Mounting block, Orange,<br>No. of poles: 1 | 4008190992224              | 100 pc(s).  | UL:           | Box           |

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**Accessories**
**Isolating elements**

**Efficient isolation - safe inspections:**

The isolating element isolates the current circuits directly at the clamping point and is easy to retrofit - one of the most versatile and efficient terminal printing systems with 5mm pitch: the LP-series by Weidmüller.

Suitable for direct installation on the back of terminals.

- Enclosed safe from finger touch
- 2 in 1 - marking holder for labelling circuit numbers and fuses
- Attachment profile for Dekafix markers

Clear assignment of isolating elements to the correct conductor outlet enables thorough maintenance and inspections.

Safety in compact form - for the service technician and application components.

**General ordering data**

| Type                | Order No.                  | Version   | GTIN (EAN)    | Qty.       | Product data             | Packaging |
|---------------------|----------------------------|---|---------------|------------|--------------------------|-----------|
| LPA TR STI3.2<br>OR | <a href="#">1495460000</a> | PCB terminal, Accessories,<br>Disconnection element,<br>Orange, No. of poles: 1 | 4008190044688 | 100 pc(s). | IEC: 500 V / 13 A<br>UL: | Box       |
| LPA TR STI4.5<br>OR | <a href="#">1495560000</a> | PCB terminal, Accessories,<br>Disconnection element,<br>Orange, No. of poles: 1 | 4008190156732 | 100 pc(s). | IEC: 500 V / 13 A<br>UL: | Box       |

**Additional accessories**

**No task is too small when creating the perfect solution.**

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

- Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

**General ordering data**

| Type      | Order No.                 | Version   | GTIN (EAN)    | Qty.      | Product data | Packaging |
|-----------|---------------------------|---|---------------|-----------|--------------|-----------|
| PS 2.0 MC | <a href="#">031000000</a> | PCB plug-in connector,<br>Accessories, Test plug, Red,<br>No. of poles: 1 | 4008190000059 | 20 pc(s). | UL:          | Box       |

## Recommended wave soldering profiles

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 Klängenbergstraße 16  
 D-32758 Detmold  
 Germany  
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### Single Wave:



### Double Wave:



### Wave soldering profiles

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

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

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

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

