

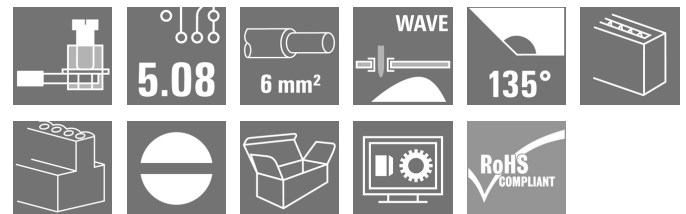
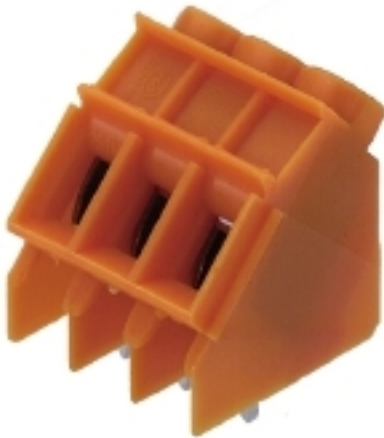
LP 5.08/09/135 3.2SN OR BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

Test point, 32 A and 6 mm² conductor cross-section are feasible with this PCB terminal with proven clamping yoke connection at 5.00 and 5.08 mm pitch, conductor outlet direction 90° and 135°, with extensive auxiliary functions.

General ordering data

| | |
|--------------|---|
| Version | Printed circuit board terminals, 5.08 mm, Number of poles: 9, 135°, Solder pin length (l): 3.2 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 6 mm ² , Box |
| Order No. | 1843170000 |
| Type | LP 5.08/09/135 3.2SN OR BX |
| GTIN (EAN) | 4032248354733 |
| Qty. | 50 pc(s). |
| Product data | IEC: 500 V / 32 A / 0.5 - 6 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12 |
| Packaging | Box |

Creation date October 6, 2024 5:20:54 AM CEST

Catalogue status 28.09.2024 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------|------------|
| Depth | 17.5 mm | Depth (inches) | 0.689 inch |
| Height | 20 mm | Height (inches) | 0.787 inch |
| Height of lowest version | 16.8 mm | Width | 46.32 mm |
| Width (inches) | 1.824 inch | Net weight | 14.4 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 | 135° |
| Pitch in mm (P) | 5.08 mm | Pitch in inches (P) | 0.2 " |
| Number of poles | 9 | Pin series quantity | 1 |
| Fitted by customer | Yes | Number of rows | 1 |
| Max. adjacent poles per row | 24 | 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 | 40.64 mm | L1 in inches | 1.6 " |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Protection degree | IP20 | Volume resistance | 1.20 mΩ |

Material data

| | | | |
|---------------------------------------|---------------------------|---------------------------------------|--------|
| Insulating material | PA | Colour | orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | UL 94 flammability rating | V-2 |
| Contact material | Cu-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. | -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 ² |
| Clamping range, max. | 6 mm ² |
| 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 ² |
| Solid, max. H05(07) V-U | 6 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min. | |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |

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Technical data

Plug gauge in accordance with EN 60999 a x b; ø

2.8 mm x 2.4 mm; 3.0 mm

| | | | | |
|---------------------|--|------------------------------|----------------------------|------|
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.5 mm ² | |
| | wire end ferrule | Stripping length | nominal | 8 mm |
| | | Recommended wire-end ferrule | H0.5/12 OR | |
| | | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H0.5/6 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 0.75 mm ² | |
| | wire end ferrule | Stripping length | nominal | 8 mm |
| | | Recommended wire-end ferrule | H0.75/12 W | |
| | | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H0.75/6 | |
| | Cross-section for conductor connection | Type | fine-wired | |
| | | nominal | 1 mm ² | |
| | wire end ferrule | Stripping length | nominal | 8 mm |
| | | Recommended wire-end ferrule | H1.0/12 GE | |
| | | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H1.0/6 | |

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) | 32 A |
| Rated current, max. number of poles (Tu=20°C) | 30.5 A | Rated current, min. number of poles (Tu=40°C) | 32 A |
| Rated current, max. number of poles (Tu=40°C) | 25 A | Rated voltage for surge voltage class / pollution degree II/2 | 500 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 250 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 kV | 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 |

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1202191

| | |
|-----------------------------------|--|
| Rated voltage (Use group B / CSA) | 300 V |
| Rated current (Use group B / CSA) | 20 A |
| Wire cross-section, AWG, min. | AWG 26 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. |

| | |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group D / CSA) | 10 A |
| Wire cross-section, AWG, max. | AWG 12 |

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Technical data

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 20 A

Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 12

Packing

| | | | |
|-----------|-------|------------|--------|
| Packaging | Box | VPE length | 155 mm |
| VPE width | 95 mm | VPE height | 80 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002643 | ETIM 7.0 | EC002643 |
| ETIM 8.0 | EC002643 | ETIM 9.0 | 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 | | |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

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">• 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 |

Approvals

Approvals



ROHS Conform

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Catalogue status 28.09.2024 / We reserve the right to make technical changes.

Technical data**Downloads**

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Product Change Notification

[PCN_2016_273_PL32_Loss_of_nickel_LL_LP_Family_EN](#)[PCN_2016_273_PL32_Wegfall_Uternickelung_LL_LP_Familie_DE](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

[FL DRIVES EN](#)[FL ANALO.SIGN.CONV. EN](#)[MB DEVICE MANUF. EN](#)[FL DRIVES DE](#)[FL BUILDING SAFETY EN](#)[FL APPL LED LIGHTING EN](#)[FL INDUSTR.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](#)[PO OMNIMATE EN](#)

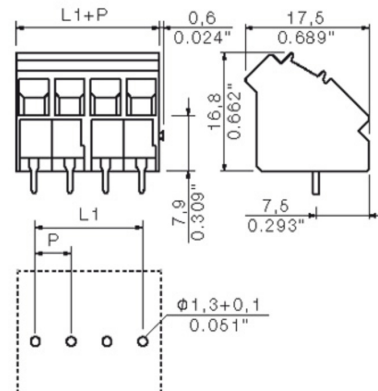
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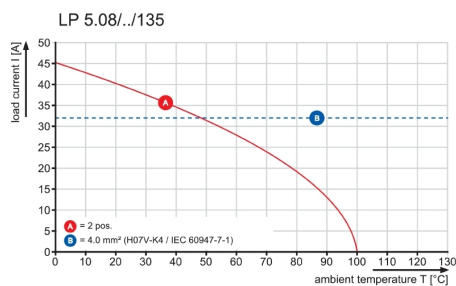
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Drawings

Dimensional drawing



Graph



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Accessories

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 | PS 2.0 MC | Version | Product data | Packaging |
|------------|----------------------------|--|--------------|-----------|
| Order No. | 0310000000 | PCB plug-in connector, Accessories, Test plug, red, Number of poles: 1 | | Box |
| GTIN (EAN) | 4008190000059 | | | |
| Qty. | 20 pc(s). | | | |

Cross-connections

**Large potential for small terminals.**

For efficient electrical distribution directly at the connection:

- Isolated comb rail
- Available with the most standard pole numbers
- Easy to shorten

Simply reduce in size to match the number of poles and connect with the conductor in a single working procedure.

For retrofitting or deliberate reduction of the thermal load on the PCB.

General ordering data

| Type | LPA QB 2 | Version | Product data | Packaging |
|------------|----------------------------|---|--------------|-----------|
| Order No. | 1472200000 | Printed circuit board terminals, Accessories, Cross-connector, Number of poles: 2 | | Box |
| GTIN (EAN) | 4008190096298 | | | |
| Qty. | 50 pc(s). | | | |
| Type | LPA QB 3 | Version | Product data | Packaging |
| Order No. | 1472300000 | Printed circuit board terminals, Accessories, Cross-connector, Number of poles: 3 | | Box |
| GTIN (EAN) | 4008190093914 | | | |
| Qty. | 50 pc(s). | | | |
| Type | LPA QB 4 | Version | Product data | Packaging |
| Order No. | 1472400000 | Printed circuit board terminals, Accessories, Cross-connector, Number of poles: 4 | | Box |
| GTIN (EAN) | 4008190053918 | | | |
| Qty. | 50 pc(s). | | | |

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www.weidmueller.com**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.

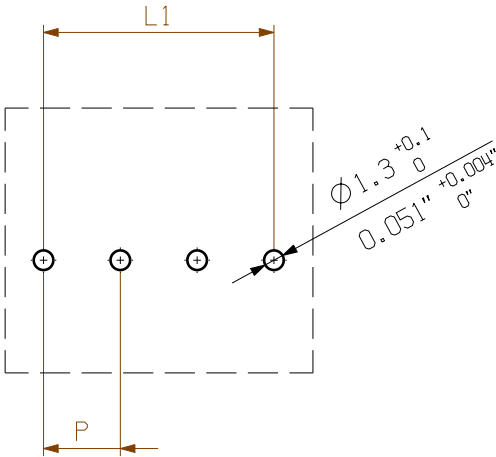
General ordering data

| Type | LPZP 2.54/135 SW | Version | Product data | Packaging |
|------------|----------------------------|--|--------------|-----------|
| Order No. | 1753750000 | Printed circuit board terminals, Accessories, Intermediate plate, black, | | Box |
| GTIN (EAN) | 4032248058655 | Number of poles: 1 | | |
| Qty. | 100 pc(s). | | | |
| Type | LPZP 2.54/135 OR | Version | Product data | Packaging |
| Order No. | 1753740000 | Printed circuit board terminals, Accessories, Intermediate plate, | | Box |
| GTIN (EAN) | 4032248058648 | orange, Number of poles: 1 | | |
| Qty. | 100 pc(s). | | | |

WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.
ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER- ODER GESCHMACKSMUSTEREINTRAGUNG VORBEHALTEN.
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DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING



LAYOUT FINISHED HOLES

P= RASTER / PITCH

SHOWN: LP 5.08/04/135

For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components alone.
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| | | |
|----|---------|-----------|
| 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] |

| | | | | | | |
|---------------|---|------------|------------------------------|-------------------------------------|-------------------|--|
| | METRIC TOLERANCES | | | | CAT.NO.: . | |
| | X. = ±0.3 X.X = ±0.1 X.XX = ±0.05 | | 49603/0 14.01.10 HELIS_MA | 01 | Weidmüller | |
| | MODIFICATION | | | | | |
| | DRAWN | 12.01.2010 | HELIS_MA | LP 5.08/.. /135 ... None None | | |
| | RESPONSIBLE | | KRUG_M | | | |
| | CHECKED | 15.01.2010 | HECKERT_M | | | |
| SCALE: 2:1 | CHECKED | | HECKERT_M | PRODUCT FILE: LP../135 | | |
| SUPERSEDES: . | APPROVED | | | 7362 | | |

C 33396 03
DRAWING NO. SHEET 02 OF 02 SHEETS

Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.