

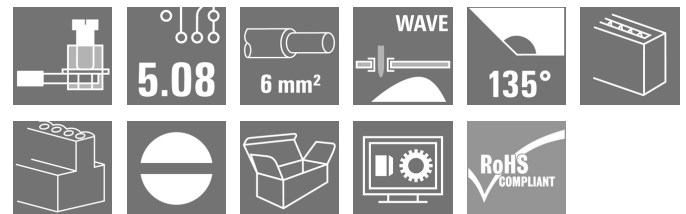
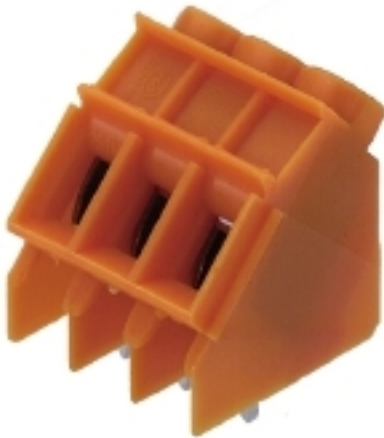
**LP 5.08/11/135 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

Test point, 32 A and 6 mm<sup>2</sup> 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: 11, 135°, Solder pin length (l): 3.2 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 6 mm <sup>2</sup> , Box
Order No.	<a href="#">1843190000</a>
Type	LP 5.08/11/135 3.2SN OR BX
GTIN (EAN)	4032248354757
Qty.	50 pc(s).
Product data	IEC: 500 V / 32 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Box

Creation date July 5, 2024 9:27:55 AM CEST

Catalogue status 29.06.2024 / We reserve the right to make technical changes.

## LP 5.08/11/135 3.2SN OR BX

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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	56.48 mm
Width (inches)	2.224 inch	Net weight	17.08 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	11	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	50.8 mm	L1 in inches	2 "
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 <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>
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, 0.5 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max.	
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>

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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 <sup>2</sup>	
	wire end ferrule	Stripping length	nominal	8 mm
		Recommended wire-end ferrule	<a href="#">H0.5/12 OR</a>	
		Stripping length	nominal	6 mm
		Recommended wire-end ferrule	<a href="#">H0.5/6</a>	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.75 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal	8 mm
		Recommended wire-end ferrule	<a href="#">H0.75/12 W</a>	
		Stripping length	nominal	6 mm
		Recommended wire-end ferrule	<a href="#">H0.75/6</a>	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal	8 mm
		Recommended wire-end ferrule	<a href="#">H1.0/12 GE</a>	
		Stripping length	nominal	6 mm
		Recommended wire-end ferrule	<a href="#">H1.0/6</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)	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 voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	20 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.		

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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 width 137 mm

VPE length 228 mm

VPE height 46 mm

**Classifications**

ETIM 6.0 EC002643

ETIM 8.0 EC002643

ECLASS 9.0 27-44-04-01

ECLASS 10.0 27-44-04-01

ECLASS 12.0 27-46-01-01

ETIM 7.0 EC002643

ETIM 9.0 EC002643

ECLASS 9.1 27-44-04-01

ECLASS 11.0 27-46-01-01

ECLASS 13.0 27-46-01-01

**Environmental Product Compliance**

REACH SVHC

/

**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

**Approvals**

Approvals



ROHS

Conform

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

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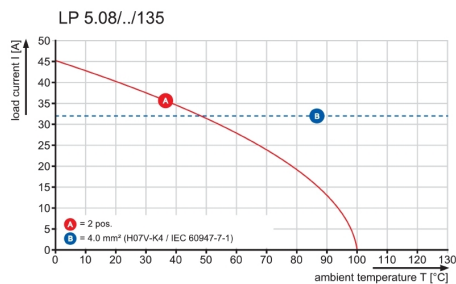
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# Drawings

## Dimensional drawing



## Graph



## LP 5.08/11/135 3.2SN OR BX

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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.	<a href="#">0310000000</a>	PCB plug-in connector, Accessories, Test plug, red, Number of poles: 1		Box
GTIN (EAN)	4008190000059			
Qty.	20 pc(s).			

## 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.	<a href="#">1753750000</a>	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.	<a href="#">1753740000</a>	Printed circuit board terminals, Accessories, Intermediate plate,		Box
GTIN (EAN)	4032248058648	orange, Number of poles: 1		
Qty.	100 pc(s).			

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## Accessories

### 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

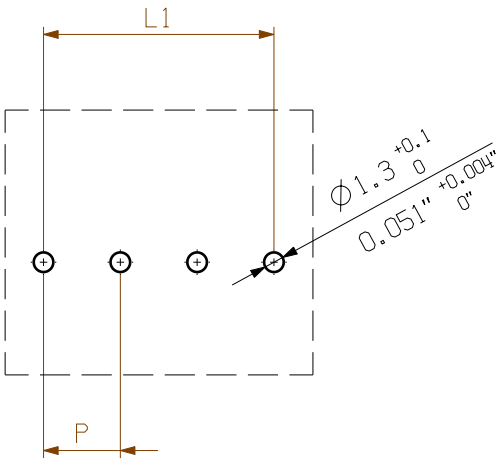
Type	LPA QB 2	Version	Product data	Packaging
Order No.	<a href="#">1472200000</a>	Printed circuit board terminals, Accessories, Cross-connector, Number		Box
GTIN (EAN)	4008190096298	of poles: 2		
Qty.	50 pc(s).			
Type	LPA QB 10	Version	Product data	Packaging
Order No.	<a href="#">1472500000</a>	Printed circuit board terminals, Accessories, Cross-connector, Number		Box
GTIN (EAN)	4008190096885	of poles: 10		
Qty.	20 pc(s).			
Type	LPA QB 3	Version	Product data	Packaging
Order No.	<a href="#">1472300000</a>	Printed circuit board terminals, Accessories, Cross-connector, Number		Box
GTIN (EAN)	4008190093914	of poles: 3		
Qty.	50 pc(s).			
Type	LPA QB 4	Version	Product data	Packaging
Order No.	<a href="#">1472400000</a>	Printed circuit board terminals, Accessories, Cross-connector, Number		Box
GTIN (EAN)	4008190053918	of poles: 4		
Qty.	50 pc(s).			



WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.  
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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		49603/0						
	X.X = ±0.1		14.01.10 HELIS_MA		01				
		X.XX = ±0.05		MODIFICATION					
		DATE	NAME				DRAWING NO. C 33396		
	DRAWN	12.01.2010	HELIS_MA				ISSUE NO. 03		
	RESPONSIBLE		KRUG_M						
SCALE: 2:1		CHECKED	15.01.2010	HECKERT_M	LP 5.08/././135 ...			SHEET 02 OF 02 SHEETS	
SUPERSEDES: .		APPROVED		HECKERT_M				PRODUCT FILE: LP../135	

## Recommended wave soldering profiles

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

### 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  $260 \text{ °C}$ . In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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