

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image























Similar to illustration

This PCB terminal provides connections for 32 A and 6 mm² conductor cross-section with proven clamping yoke connection at 5.00 and 5.08 mm pitch, conductor outlet direction in 90°, 135° and 180° design, with extensive auxiliary functions.

General ordering data

Version	Printed circuit board terminals, 5.08 mm, Number of poles: 2, 90°, Solder pin length (I): 4.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max.: 6 mm², Box
Order No.	<u>1594600000</u>
Туре	LPP 5.08/02/90 4.5SN OR BX
GTIN (EAN)	4008190115296
Qty.	100 pc(s).
Product data	IEC: 500 V / 32 A / 0.5 - 6 mm ²
	UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Вох

Creation date July 13, 2025 9:24:03 PM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	13.4 mm	Depth (inches)	0.528 inch
Height	21.5 mm	Height (inches)	0.846 inch
Height of lowest version	17 mm	Width	10.76 mm
Width (inches)	0.424 inch	Net weight	2.922 g

System parameters

Product family	OMNIMATE Signal - series	Wire connection method	
,	LP		Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.2 "
Number of poles	2	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	24	Solder pin length (I)	4.5 mm
Solder pin dimensions	0.75 x 0.9 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerand	ce (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	5.08 mm	L1 in inches	0.2 "
Touch-safe protection acc. to DIN V	DE	Touch-safe protection acc. to DIN VDE	
0470	IP 20	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	1
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	46 μm Ni / 46 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 min.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm ²		
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		

Creation date July 13, 2025 9:24:03 PM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Plug gauge in accordance with 60999 a x b; ø	EN 2.8 mm x 2.4 mm; 3.0 mm		
Clampable conductor	Cross-section for conductor connection	Туре	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	Туре	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 mm²
	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 ameter of the plastic collar should not be larg		d voltage., The outside

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)	(SP:	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.		



Weidmüller Interface GmbH & Co. KG

27-46-01-01

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated data acc. to UL 1059

Institute (UR)	<i>71.</i>	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)	20 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	155 mm
VPE width	61 mm	VPE height	58 mm
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
			· · · · · · · · · · · · · · · · · · ·

Approvals

ECLASS 13.0

ECLASS 15.0

Approvals



27-46-01-01

27-46-01-01

Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

ECLASS 14.0

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Imp	ortant	note
-----	--------	------

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized stan- dards 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.
	• It is necessary to hold the insulating body of the one or two pole terminal when tightening the screw
	 Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months
Downloads	
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN FL DRIVES DE



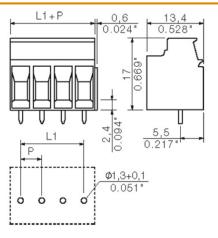
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

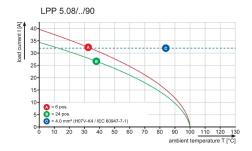
www.weidmueller.com

Drawings

Dimensional drawing



Graph





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

Туре	LPA QB 2	Version	Product data	Packaging
Order No.	1472200000	Printed circuit board terminals, Accessories, Cross-connector, Number	r	Box
GTIN (EAN)	4008190096298	of poles: 2		
Qty.	50 pc(s).			

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.

Туре	LPBB OR	Version	Product data	Packaging
Order No.	1747540000	Printed circuit board terminals, Accessories, Mounting block, orange,		Box
GTIN (EAN)	4008190992224	Number of poles: 1		
Qty.	100 pc(s).			
Туре	LPBB MU OR	Version	Product data	Packaging
Order No.	1747530000	Printed circuit board terminals, Accessories, Mounting block, orange,		Box
Order No. GTIN (EAN)	<u>1747530000</u> 4008190992217	Printed circuit board terminals, Accessories, Mounting block, orange, Number of poles: 1		Box



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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

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

Marker holder



Finds space on the smallest terminal:

The marking holder is easy to retrofit and provides a large additional labelling space - the Weidmüller LP series is one of the most versatile and efficient terminal printing systems with 5mm pitch.

3 steps to clear, legible labels:

The most professional, convenient method of marking clamping points direct on the module - no confusion between clamping points and no incorrect wiring connections.

Minimum effort, maximum effect.

Туре	LPA BZ3	Version	Product data	Packaging
Order No.	<u>1497360000</u>	Printed circuit board terminals, Accessories, Marker holder, black,		Box
GTIN (EAN)	4008190127022	Number of poles: 3		
Qty.	100 pc(s).			
Туре	LPA BZ2	Version	Product data	Doolsoning
.,,,,	LI A DZZ	version	Floudel data	Packaging
Order No.	1497260000	Printed circuit board terminals, Accessories, Marker holder, black,	Froduct data	Box
			Froduct data	



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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.

Туре	LPZP 2.54/90 OR	Version	Product data	Packaging
Order No.	<u>1747480000</u>	Printed circuit board terminals, Accessories, Intermediate plate,		Box
GTIN (EAN)	4008190992163	orange, Number of poles: 1		
Qty.	100 pc(s).			
Туре	LPZP 2.54/90 SW	Version	Product data	Packaging
Order No.	<u>1747500000</u>	Printed circuit board terminals, Accessories, Intermediate plate, black	,	Box
GTIN (EAN)	4008190992187	Number of poles: 1		
Qty.	100 pc(s).			
Туре	LPZP 1.27/90 OR	Version	Product data	Packaging
Order No.	<u>1747490000</u>	Printed circuit board terminals, Accessories, Intermediate plate,		Box
GTIN (EAN)	4008190992170	orange, Number of poles: 1		
Qty.	100 pc(s).			
Туре	LPZP 1.27/90 SW	Version	Product data	Packaging
Order No.	<u>1747510000</u>	Printed circuit board terminals, Accessories, Intermediate plate, black	,	Box
GTIN (EAN)	4008190992194	Number of poles: 1		
Qty.	100 pc(s).			



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Accessories

Fuse cartridges



Convenient protection for technicians and technology:

The fuse holder protects 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 safety elements to the correct conductor outlet enables easy maintenance and troubleshooting.

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

General ordering data

Туре	LPA SI STI4.5 OR	Version	Product data	Packaging
Order No.	<u>1495160000</u>	Printed circuit board terminals, Accessories, Fuse cartridge, orange,	IEC: 500 V / 6.3 A	Box
GTIN (EAN)	4008190153359	Number of poles: 1	UL:	
Qty.	50 pc(s).			
Туре	LPA SI STI3.2 OR	Version	Product data	Packaging
Type Order No.	LPA SI STI3.2 OR 1495060000	Version Printed circuit board terminals, Accessories, Fuse cartridge, orange,	Product data IEC: 500 V / 6.3 A	Packaging Box
• •				0 0

Function indicators



Everything under control:

The function indicator is easy to retrofit and clearly indicates the switching state at the clamping point - also available with large format marking holder. One of the most versatile and efficient terminal printing systems with 5mm pitch: the Weidmüller LP series.

- Holder for 3mm standard LEDs
- Simple installation on the back of SP series terminals.
- Optional marking holder for advanced marking options (WS10/5 and WS12/5, see markings)

The easiest, most reliable way of monitoring switching states.

In brief: minimum effort, maximum reliability.

Туре	LPA FA3 BZ	Version	Product data	Packaging
Order No.	1496260000	Printed circuit board terminals, Accessories, Function indicator, black,		Box
GTIN (EAN)	4008190101862	Number of poles: 3		
Qtv.	50 pc(s).			



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Accessories

Туре	LPA FA2	Version	Product data	Packaging
Order No.	1495960000	Printed circuit board terminals, Accessories, Function indicator, black	ζ,	Box
GTIN (EAN)	4008190173500	Number of poles: 2		
Qty.	50 pc(s).			
Туре	LPA FA2 BZ	Version	Product data	Packaging
Order No.	<u>1496160000</u>	Printed circuit board terminals, Accessories, Function indicator, black	ζ,	Box
GTIN (EAN)	4008190100988	Number of poles: 2		
Qty.	50 pc(s).			
Туре	LPA FA3	Version	Product data	Packaging
Order No.	1496060000	Printed circuit board terminals, Accessories, Function indicator, black	ζ,	Box
GTIN (EAN)	4008190062330	Number of poles: 3		
Qty.	50 pc(s).			

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.

Туре	LPA TR STI3.2 OR	Version	Product data	Packaging
Order No.	<u>1495460000</u>	Printed circuit board terminals, Accessories, Spacer, orange, Number	IEC: 500 V / 13 A	Box
GTIN (EAN)	4008190044688	of poles: 1	UL:	
Qty.	100 pc(s).			
Type	LPA TR STI4.5 OR	Version	Product data	Packaging
Type Order No.	LPA TR STI4.5 OR 1495560000	Version Printed circuit board terminals, Accessories, Spacer, orange, Number		Packaging Box
• •				0 0



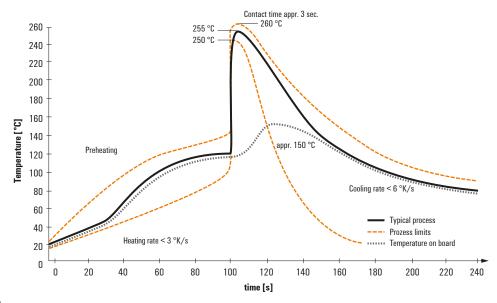
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

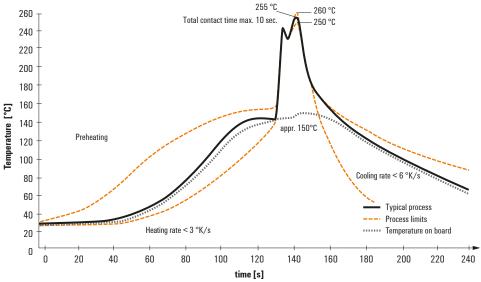
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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.