

LL 9.52/02/90 5.0SN GN BX**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

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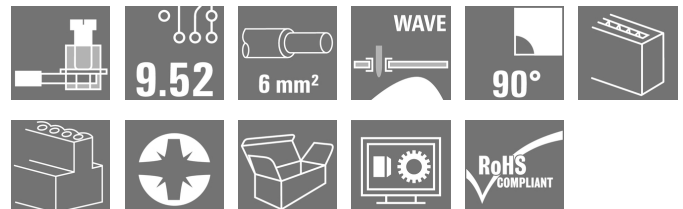
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Product image

Similar to illustration

This PCB terminal provides connections for 1000 V, 6 mm² conductor cross-section and 32 A with proven clamping yoke connection at 9.52 mm pitch, conductor outlet direction in 90° design.

**General ordering data**

Version	Printed circuit board terminals, 9.52 mm, Number of poles: 2, 90°, Solder pin length (l): 5 mm, tinned, Pale green, Clamping yoke connection, Clamping range, max. : 6 mm ² , Box
Order No.	1724720000
Type	LL 9.52/02/90 5.0SN GN BX
GTIN (EAN)	4008190959814
Qty.	100 pc(s).
Product data	IEC: 1000 V / 32 A / 0.18 - 6 mm ² UL: 300 V / 30 A / AWG 26 - AWG 10
Packaging	Box

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Technical data

Dimensions and weights

Depth	12.5 mm	Depth (inches)	0.492 inch
Height	26.5 mm	Height (inches)	1.043 inch
Height of lowest version	21.5 mm	Width	19.64 mm
Width (inches)	0.773 inch	Net weight	6.47 g

System parameters

Product family	OMNIMATE Signal - series LL	Wire connection method	Clamping yoke connection
Property, clamping point	WireReady	Mounting onto the PCB	THT solder connection
Conductor outlet direction	90°	Pitch in mm (P)	9.52 mm
Pitch in inches (P)	0.375 inch	Number of poles	2
Pin series quantity	1	Fitted by customer	Yes
Max. adjacent poles per row	12	Solder pin length (l)	5 mm
Solder pin dimensions	0.5 x 1.0 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	0.8 x 4.0	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Stripping length	7 mm
L1 in mm	9.52 mm	L1 in inches	0.375 inch
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		

Material data

Insulating material	Wemid (PA)	Colour	Pale green
Colour chart (similar)	RAL 6021	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Coating	4-6 µm SN	Tinning type	matt
Layer structure of solder connection	2...4 µm Ni / 4...6 µm Sn matt	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

Clamping range, min.	0.18 mm ²
Clamping range, max.	6 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.18 mm ²
Solid, max. H05(07) V-U	6 mm ²
Flexible, min. H05(07) V-K	0.22 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, 0.5 mm ² min.	

Creation date June 3, 2022 6:58:24 PM CEST

Catalogue status 20.05.2022 / We reserve the right to make technical changes.

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Technical data

w. wire end ferrule, DIN 46228 pt 1, max. 4 mm²

Plug gauge in accordance with EN 60999 a x b; ø 3.6 mm x 3.1 mm; 2.7 mm

Clampable conductor

Cross-section for conductor connection	Type	fine-wired	
	nominal	0.5 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H0.5/6	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H1.0/6	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1.5 mm ²	
wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire-end ferrule	H1.5/7	
Cross-section for conductor connection	Type	fine-wired	
	nominal	2.5 mm ²	
wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire-end ferrule	H2.5/7	
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H0.75/6	

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, max. number of poles (Tu=20°C)	32 A
Rated current, max. number of poles (Tu=40°C)	32 A
Rated voltage for surge voltage class / pollution degree III/2	1,000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV

Rated current, min. number of poles (Tu=20°C)	32 A
Rated current, min. number of poles (Tu=40°C)	32 A
Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/3	690 V
Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV
Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1815154

Rated voltage (Use group B / CSA)	300 V
Rated current (Use group B / CSA)	30 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / CSA)	300 V
Rated current (Use group C / CSA)	35 A
Wire cross-section, AWG, max.	AWG 10

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Technical data

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus) www.weidmueller.com

E60693

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

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

Rated current (Use group B / UL 1059) 30 A

Rated current (Use group C / UL 1059) 30 A

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	331 mm
VPE width	140 mm	VPE height	51 mm

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	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

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

- 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
- The data given under CSA relates to a cUL approval - E60693
- 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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS Conform

UL File Number Search E60693

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[WSCAD](#)

Product Change Notification

[PCN_2016_273_PL32_Loss_of_nickle_LL_LP_Family_EN](#)

[PCN_2016_273_PL32_Wegfall_Unternickelung_LL_LP_Familie_DE](#)

User Documentation

[QR-Code product handling video](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

[FL DRIVES EN](#)

[MB DEVICE MANUF. EN](#)

[FL DRIVES DE](#)

[FL APPL INVERTER EN](#)

[FL_BASE_STATION_EN](#)

[FL ELEVATOR EN](#)

[FL POWER SUPPLY EN](#)

[FL 72H SAMPLE SER EN](#)

[PO OMNIMATE EN](#)

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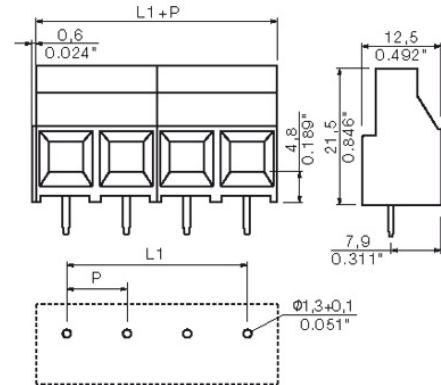
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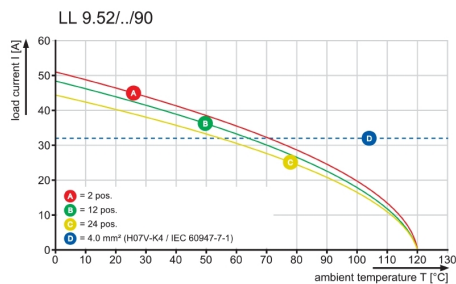
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Drawings

Dimensional drawing info@weidmueller.com



Graph



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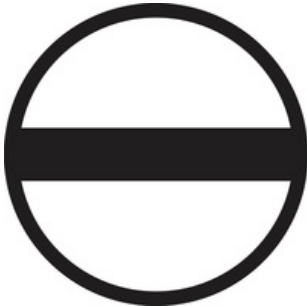
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info@weidmueller.com**Accessories****Crosshead screwdriver Pozidriv**

Crosshead screwdriver, Pozidriv, SDK PZ, DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

Type	SDK PZ1 X 80	Version
Order No.	2749440000	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4050118895667	
Qty.	1 pc(s).	

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.8X4.0X100	Version
Order No.	9008400000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056361	
Qty.	1 pc(s).	

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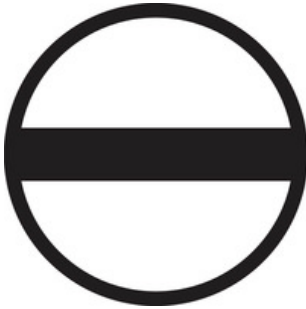
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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265,
ISO 2380/2, output to DIN 5264, ISO 2380/1.
ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.8X4.0X100	Version
Order No.	9008340000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056293	
Qty.	1 pc(s).	

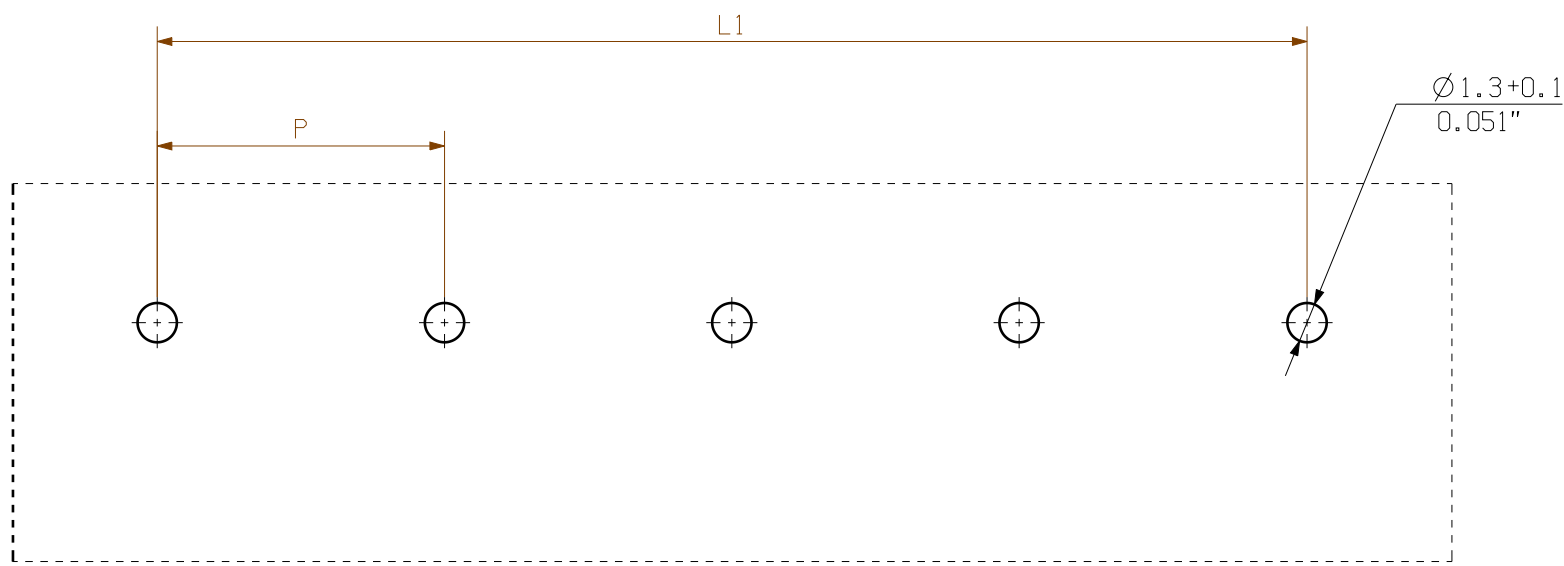
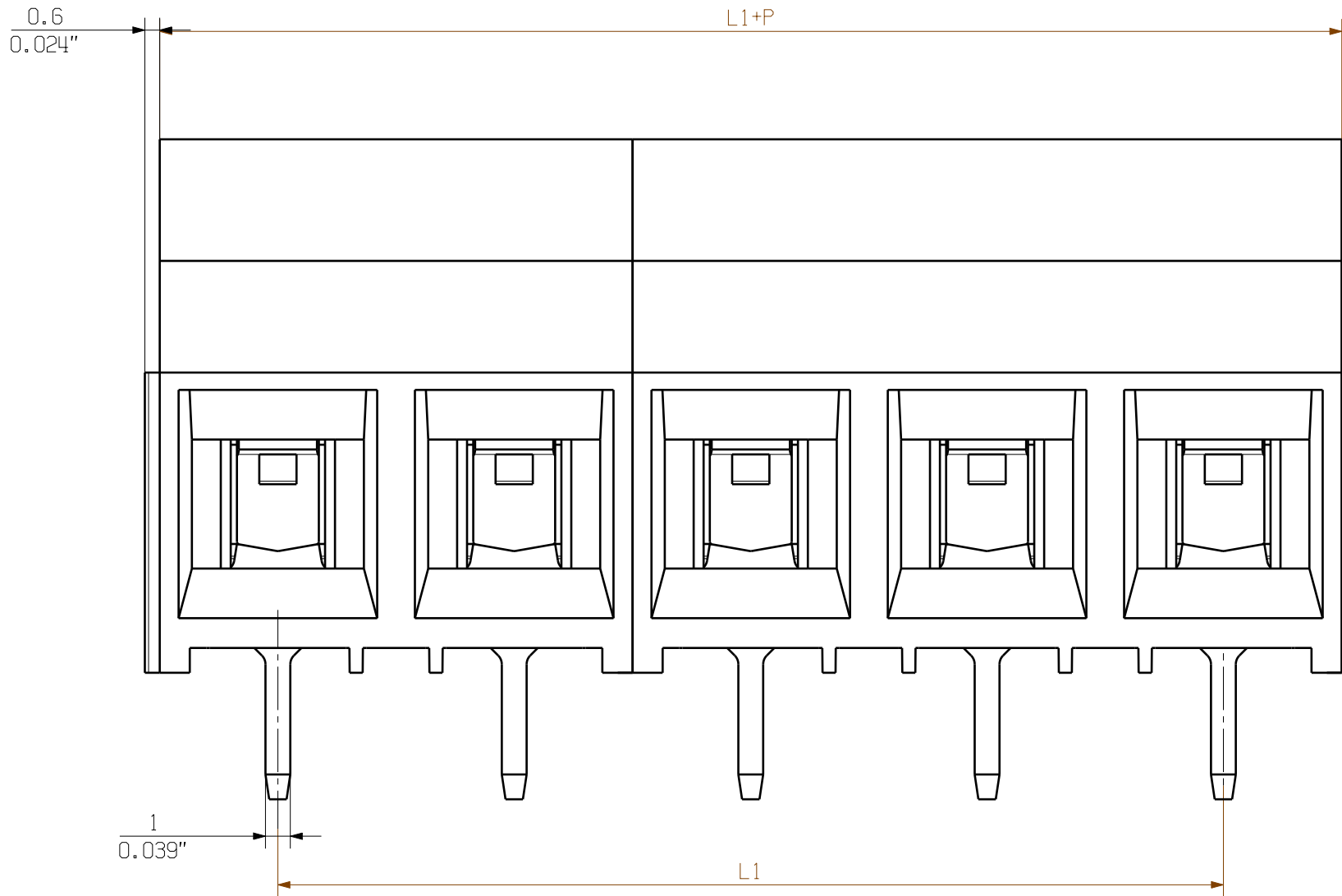
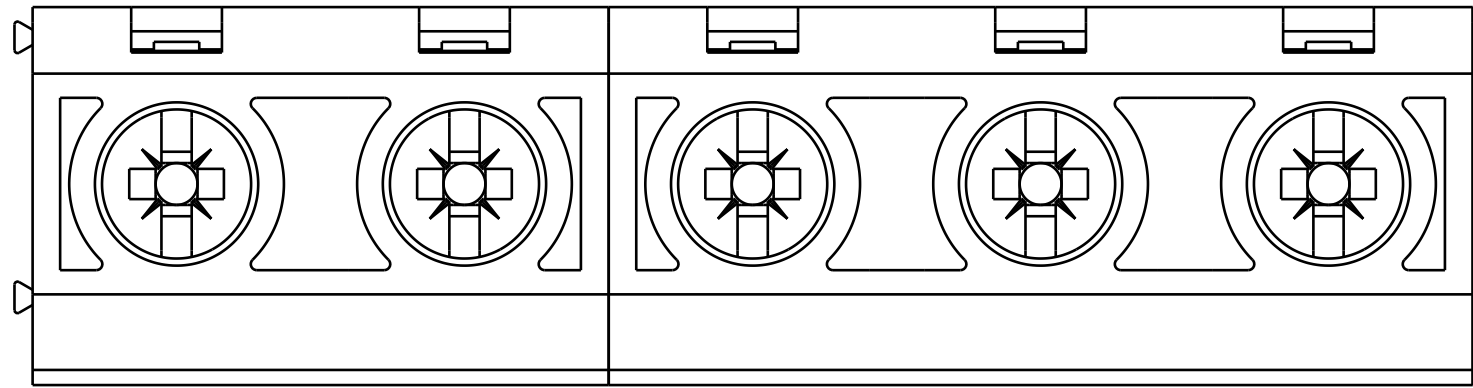
Crosshead screwdriver Pozidriv



VDE insulated crosshead screwdriver type Pozidriv SDIK
PZ DIN 7438, ISO 8764/2-PZ, output to ISO 8764-PZ,
SoftFinish grip

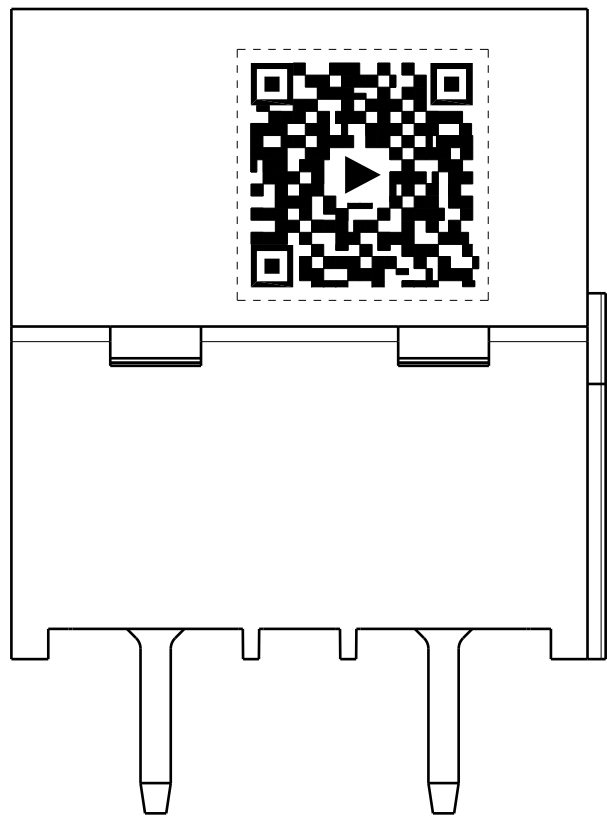
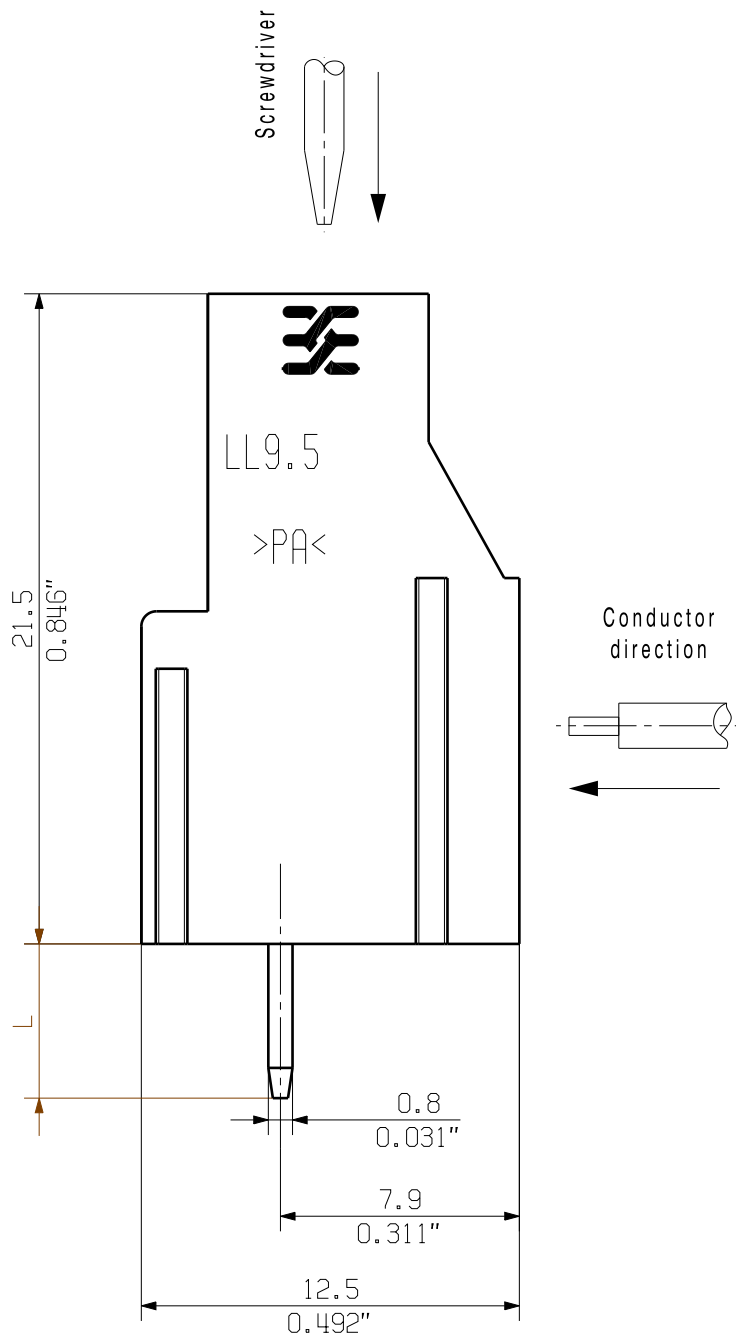
General ordering data

Type	SDIK PZ1 X 80	Version
Order No.	2749920000	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4050118897227	
Qty.	1 pc(s).	



PCB LAYOUT

Customer drawing



Pin length L	Tolerance
5.0	0.10 -0.25

P= 9.52 Pitch
0.375

12	104.72	4.125
11	95.20	3.750
10	85.68	3.375
9	76.16	3.000
8	66.64	2.625
7	57.12	2.250
6	47.60	1.875
5	38.08	1.500
4	28.56	1.125
3	19.04	0.750
2	9.52	0.375
N	L1 [mm]	L1 [inch]
P	9.52 mm	0.375 inch

For the mounting of PCBs, it should be noted that the rated data 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 60664-1 (VDE 0110). The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 60326-3 very fine.

Weidmüller PCB components are tested to the IEC 60947-7-4 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.

GENERAL TOLERANCE:
DIN ISO 2768-m

	EC00000683	00	Prim PLM Part No.: 026319		Prim ERP Part No.: 1912970000	
	First Issue Date 14.05.2018	Max. nos.			4 1724	
Modification		Drawing no. Sheet 01 of 01 sheets				
		Date	Name	LL 9.52/.../90 ... LEITERPLATTENKLEMME PCB TERMINAL		
	Drawn	03.12.2018	Xiang, Kegin			
	Responsible		Xiang, Kegin			
	Approved	04.12.2018	Xu, Shary			
Scale: 4/1		Size: A2		Product file: 7066 LL 9.52		
Drawings Assembly						

Drawing no.	41724	Issue no.	10
Sheet	01	of	01 sheets

Recommended wave soldering profiles

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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.

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