

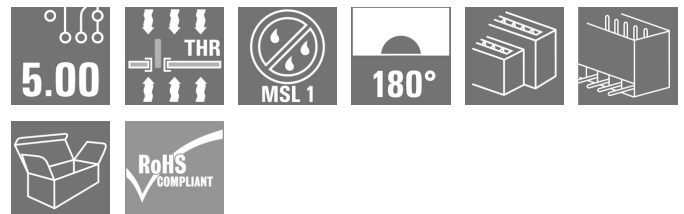
SLDV-THR 5.00/06/180G 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

High-temperature resistant, double level, laterally offset, closed ended male header, with solder flange option. 1.5 mm solder pin suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 5.00 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	1882700000
Type	SLDV-THR 5.00/06/180G 3.2SN BK BX
GTIN (EAN)	4032248486274
Qty.	50 pc(s).
Product data	IEC: 400 V / 15 A UL: 300 V / 10 A
Packaging	Box

Creation date May 11, 2025 7:57:27 PM CEST

SLDV-THR 5.00/06/180G 3.2SN BK BX

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Technical data

Dimensions and weights

Depth	23.43 mm	Depth (inches)	0.922 inch
Height	29.36 mm	Height (inches)	1.156 inch
Height of lowest version	26.16 mm	Width	18 mm
Width (inches)	0.709 inch	Net weight	6.06 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 "	Outgoing elbow	180°
Number of poles	6	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.2 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0.03 mm
Solder eyelet hole diameter (D)	1.5 mm	Solder eyelet hole diameter tolerance (D)	+ 0.1 mm
L1 in mm	10 mm	L1 in inches	0.394 "
Number of rows	2	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Protection degree	IP20	Volume resistance	≤5 mΩ
Can be coded	Yes	Plugging force/pole, max.	9 N
Pulling force/pole, max.	8 N		

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIla
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	1...3 µm Ni / 2...4 µm Sn matt
Layer structure of plug contact	1...3 µm Ni / 2...4 µm Sn matt	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		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	15 A
Rated current, max. number of poles (Tu=20°C)	10.5 A	Rated current, min. number of poles (Tu=40°C)	13 A
Rated current, max. number of poles (Tu=40°C)	9 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 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	1 x 1s with 120 A

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Technical data

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1121690

Rated voltage (Use group B / CSA) 300 V

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group B / CSA) 10 A

Rated current (Use group D / CSA) 10 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Institute (cURus)



Certificate No. (cURus)

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) 10 A

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

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	162 mm
VPE width	97 mm	VPE height	85 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

Environmental Product Compliance

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

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Technical data

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. - Spacing between rows: see hole layout - 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. - In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load - Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURus)	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES 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
White paper surface mount technology	Download Whitepaper

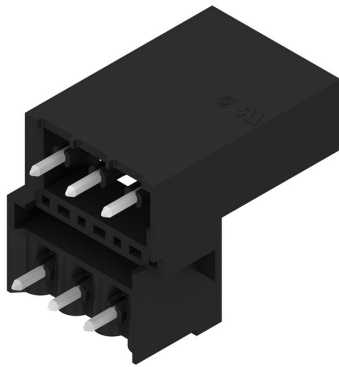
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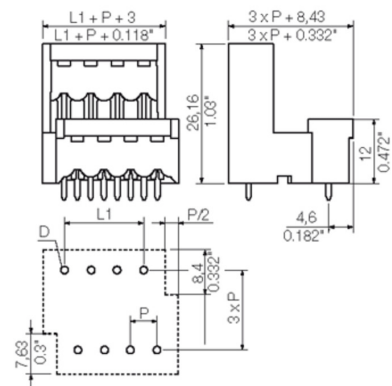
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Drawings

Product image



Dimensional drawing



Product benefits



Safe power transmission
Proven properties

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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 useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	SL AT SW	Version	Product data	Packaging
Order No.	1770240000	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1		Box
GTIN (EAN)	4032248117710			
Qty.	100 pc(s).			
Type	SL AT OR	Version	Product data	Packaging
Order No.	1598300000	PCB plug-in connector, Accessories, Spacer, orange, Number of poles: 1		Box
GTIN (EAN)	4008190189266			
Qty.	100 pc(s).			

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BLZ/SL KO OR BX	Version	Product data	Packaging
Order No.	1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number of poles: 1		Box
GTIN (EAN)	4008190048396			
Qty.	100 pc(s).			

SLDV-THR 5.00/06/180G 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories**

Type	BLZ/SL KO BK BX	Version	Product data	Packaging
Order No.	1545710000	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190087142	of poles: 1		
Qty.	50 pc(s).			

SLDV-THR 5.00/06/180G 3.2SN BK BX

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Drawings

Product benefits



Compliant with existing standards

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DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

Technical Data

Rev.

Material data

Insulation material type	
Insulation material colours	
Insulation material flammability class	UL94
Insulation resistance	MOhm
Contact base material	
Contact plating (mating end)	
Contact plating (solder end)	

LCP GF
black
V-0
10 ⁵
CuSn
tin plated
tin plated

System characteristic values

together with counterpart

Pitch P	mm/inch
Number of rows	
Dielectric strength (r.m.s withstand voltage)	kV
Mechanical operating cycles	acc. to IEC 512
Plug in force (max.)	N/pole
Pull out force (max.)	N/pole
Through resistance (typical)	mOhm
Operating temperature range	°C
Degree of protection acc. to VDE 0106 (plugged/unplugged)	
Degree of protection acc. to DIN EN 60529 (plugged/unplugged)	
Solder pin length L	mm/inch
PCB hole diameter D (wave soldering)	mm/inch
PCB hole diameter D (reflow soldering)	mm/inch
Resistance to soldering heat acc. to DIN IEC 60512-6	°C/sec
Resistance to soldering heat acc. to EN 61760-1	°C/sec
Solderability classification acc. to EN 61760-1	
Solder connection type	
Solder pin diameter d (max.)	mm/inch

BLZ 5.00
5.00/0.197
2
4
25
n.a.
n.a.
<5
-55...+100
back of hands
IP10
3.2/0.126 ; 1.5/0.059
1.4/0.055
1.5/0.059
260/5
290/30
class A
through hole solder
1.2/0.047

Application notes

Coding possibility	yes/no
Joinable without loss of pitch	yes/no
Manual assembly of modules	yes/no
Max. number of poles	n

yes
n.a.
n.a.
48

IEC 664-1 / VDE0110 (4.97) rated data

Rated cross section acc. to EN 60999	mm ²
Rated current @ 20°C ambient (together with BLZ 5.08)	A
Rated current @ 40°C ambient (together with BLZ 5.08)	A
Overvoltage category / Pollution degree	
Rated voltage	V
Rated impulse voltage	kV

n.a.
18.6
16.1
III/3 III/2 II/2
250 320 400
4.0 4.0 4.0

UL 1059 rated data



File No.: E60693

Rated voltage	V
Rated current	A
AWG wire range (field wiring / factory wiring)	

B	C	D
300		300
10		10
n.a.		

CSA C22.2 rated data



File No.: 12400 (old)
ReportNo.: 1308147 (new)

Rated voltage	V
Rated current	A
AWG wire range (field wiring / factory wiring)	

B	C	D
300		300
10		10
n.a.		

Packaging

carton

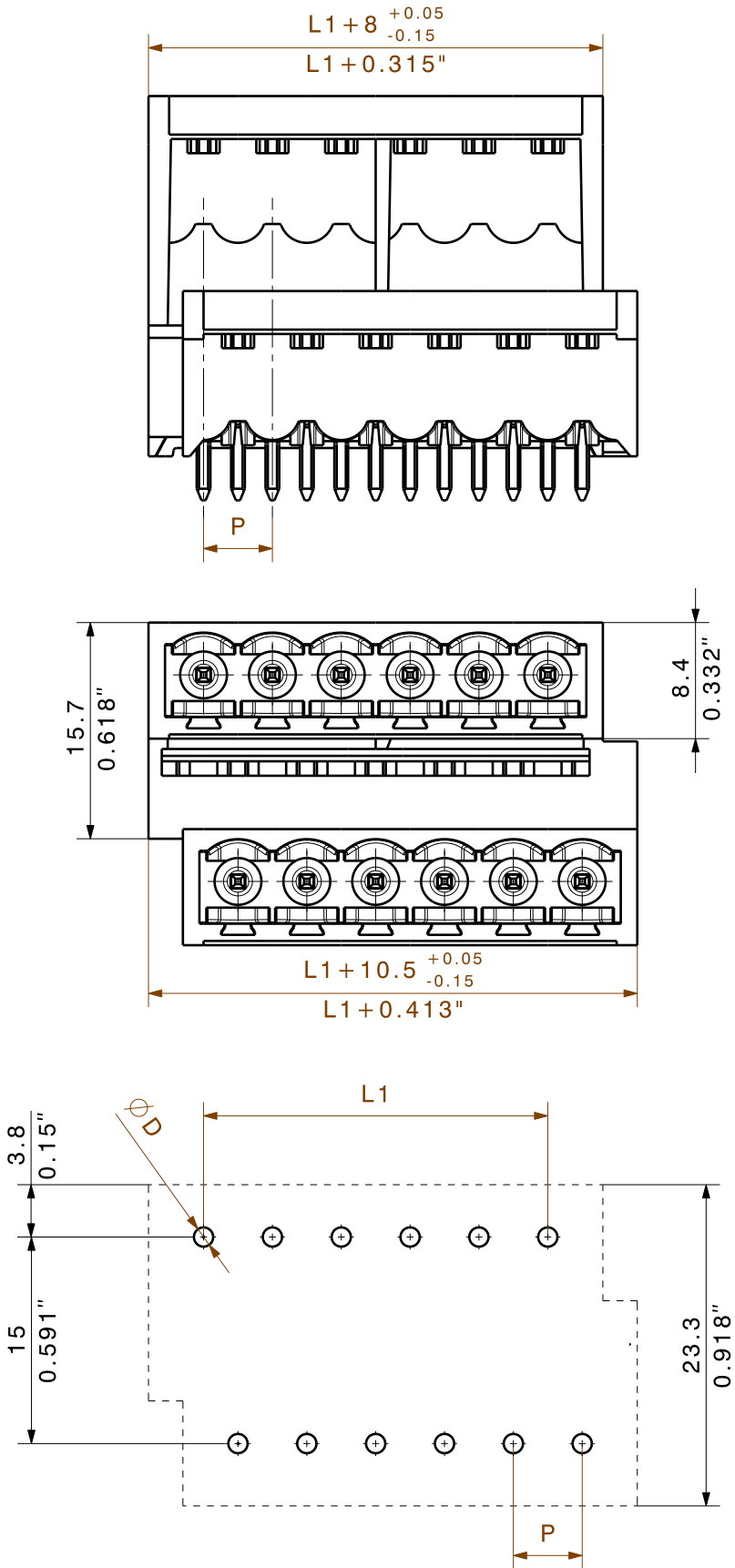
Downloads

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- 1) Sum of ambient temperature and temperature rise
- 2) Recommendation for manual assembly
- 3) Recommendation for automatic assembly
- 4) Recommendation for wave soldering
- 5) Recommendation for reflow soldering
- 6) Referred to rated cross section and minimum pole number
- 7) Fingersafe above PC-board, if plugged with BLZ
- 8) IP20 above PC-board, if plugged with BLZ

n.a. = not applicable

Subject to technical changes



Layout Finished Holes

Paste-Free Area

48	115,00	4,53
46	110,00	4,33
44	105,00	4,13
42	100,00	3,94
40	95,00	3,74
38	90,00	3,54
36	85,00	3,35
34	80,00	3,15
32	75,00	2,95
30	70,00	2,76
28	65,00	2,56
26	60,00	2,36
24	55,00	2,17
22	50,00	1,97
20	45,00	1,77
18	40,00	1,57
16	35,00	1,38
14	30,00	1,18
12	25,00	0,98
10	20,00	0,79
8	15,00	0,59
6	10,00	0,39
4	5,00	0,20
n	L1 [mm]	L1 [inch]

RoHS ☒

37601/5
07.09.07 HERTEL_S 01

MODIFICATION

DATE
04.08.2004

NAME
HERTEL_S

DRAWN
RESPONSIBLE
CHECKED
APPROVED

13.09.2007
HERTEL_S
GUENTHER_W

SCALE: 2:1
SUPERSEDES: -
SUPERSEDED BY: .

CAT.NO.: .

Weidmüller

C 36146 05

DRAWING NO.
SHEET 3

ISSUE NO.
OF 6 SHEETS

SLDV-THR 5.00/./180G
SMT Doppelstock-Stiftleiste
SMT double level pin header

PRODUCT FILE: SLDV-THR 5.08

None

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
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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.

We reserve the right to make technical changes.

Recommended reflow soldering profile

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Fax: +49 5231 14-292083
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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.