



Klingenbergstraße 26 D-32758 Detmold Germany

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## **Product image**















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Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

## **General ordering data**

Version	PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, Number of poles: 14, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1648430000</u>
Туре	BLL 5.08/14/90 3.2 SN OR BX
GTIN (EAN)	4008190292904
Qty.	24 items
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A
Packaging	Вох





## Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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# **Technical data**

## **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

## **Dimensions and weights**

Net weight 14.63 g

## **Environmental Product Compliance**

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

## **System specifications**

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Outgoing elbow	90°
Number of poles	14	Number of solder pins per pole	2
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.4 x 1.00 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm	L1 in mm	66.04 mm
L1 in inches	2.600 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Protection degree	IP20
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	5 N
Pulling force/pole, max.	5 N		

## **Material data**

Insulating material	PBT GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	46 µm Sn hot-dip tinned	Layer structure of plug contact	46 µm Sn hot-dip tinned
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 ℃	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)	23 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	20 A

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# **Technical data**

Rated current, max. number of poles 14 A (Tu=40°C)	Rated voltage for surge voltage class / 400 V pollution degree II/2
Rated voltage for surge voltage class / 320 V pollution degree III/2	Rated voltage for surge voltage class / 250 V pollution degree III/3
Rated impulse voltage for surge voltage 4 V class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3	Short-time withstand current resistance 3 x 1s with 120 A

#### Rated data acc. to CSA

Institute (CSA)	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)	15 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)	UR	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)	15 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details -		

## **Packing**

Packaging	Box	VPE length	349.00 mm
VPE width	137.00 mm	VPE height	32.00 mm

## **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> <li>Additional variants on request</li> <li>Gold-plated contact surfaces on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> </ul>

- 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

## 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		

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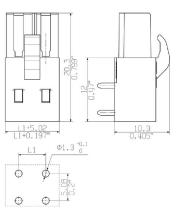
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# **Drawings**

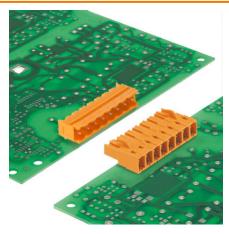
## **Product image**



## **Dimensional drawing**



## **Example of use**





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## **Accessories**

## **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**

Туре	BLZ/SL KO BK BX	Version
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	
Type	BLZ/SL KO OR BX	Version
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, Number
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# Counterpart

#### **SLDF 5.08**



Male connector for through-panel mounting with optional locking function. Internal connection as flat-blade or solder connection. These male connectors provide space for labelling and can be coded.

#### **General ordering data**

 Type
 SLDF 5.08 L/F 14 SN OR ...
 Version

 Order No.
 1599250000
 PCB plug-in connector, male header, 5.08 mm, Number of poles: 14,

 GTIN (EAN)
 4008190178444
 180°, Flat-blade connection, Solder connection, Box

 Qty.
 18 ST

#### SL 5.08/135



Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

## **General ordering data**

Туре	SL 5.08/14/135 3.2SN OR	Version
Order No.	<u>1603180000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190005702	connection, 5.08 mm, Number of poles: 14, 135°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box

## SL 5.08/135B



Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

## **General ordering data**

Туре	SL 5.08/14/135B 3.2SN O	Version
Order No.	<u>1605650000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190048150	solder connection, 5.08 mm, Number of poles: 14, 135°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

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## Counterpart

## SL 5.08/180



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

## **General ordering data**

Туре	SL 5.08/14/180 3.2SN OR	Version
Order No.	<u>1518460000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190110109	connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, orange, Box
Туре	SL 5.08/14/180 4.5SN OR	Version
Type Order No.	SL 5.08/14/180 4.5SN OR 1523060000	Version PCB plug-in connector, male header, open side, THT solder
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## SL 5.08/180B



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

## **General ordering data**

Туре	SL 5.08/14/180B 3.2SN O	Version
Order No.	<u>1520760000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190017125	solder connection, 5.08 mm, Number of poles: 14, 180°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

## SL 5.08/90



Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

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## Counterpart

## **General ordering data**

Туре	SL 5.08/14/90 3.2SN OR	Version
Order No.	<u>1509260000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190158989	connection, 5.08 mm, Number of poles: 14, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, orange, Box

#### SL 5.08/90B



Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

#### **General ordering data**

Туре	SL 5.08/14/90B 3.2SN OR	Version
Order No.	<u>1511560000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190068479	solder connection, 5.08 mm, Number of poles: 14, 90°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, orange, Box

## SL 5.08HC/180



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## **General ordering data**

Туре	SL 5.08HC/14/180 3.2SN	Version
Order No.	<u>1148370000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248933761	connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/14/180 3.2SN	Version
Order No.	1146590000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248933426	connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length

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## Counterpart

#### SL 5.08HC/180B



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

#### **General ordering data**

Туре	SL 5.08HC/14/180B 3.2SN	Version	
Order No.	<u>1149800000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT	
GTIN (EAN)	4032248935260	solder connection, 5.08 mm, Number of poles: 14, 180°, Solder pin	
Qty.	50 ST	length (I): 3.2 mm, tinned, black, Box	
Туре	SL 5.08HC/14/180B 3.2SN	Version	
Type Order No.	SL 5.08HC/14/180B 3.2SN 1147710000	Version PCB plug-in connector, male header, Dovetails for fixing blocks, THT	
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## SL 5.08HC/180G



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## **General ordering data**

Туре	SL 5.08HC/14/180G 3.2SN	Version
Order No.	<u>1149030000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248934003	connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/14/180G 3.2SN	Version
Type Order No.	SL 5.08HC/14/180G 3.2SN 1147000000	Version PCB plug-in connector, male header, closed side, THT solder
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## Counterpart

#### SL 5.08HC/90



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

#### **General ordering data**

Туре	SL 5.08HC/14/90 3.2SN B	Version
Order No.	1155180000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118050691	connection, 5.08 mm, Number of poles: 14, 90°, Solder pin length (I):
Qty.	50 ST	3.2 mm, tinned, black, Box
Туре	SL 5.08HC/14/90 3.2SN O	Version
Type Order No.	SL 5.08HC/14/90 3.2SN O 1146990000	Version PCB plug-in connector, male header, open side, THT solder

## **SL 5.08HC/90B**



Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

## **General ordering data**

Туре	SL 5.08HC/14/90B 3.2SN	Version
Order No.	<u>1155710000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118050233	solder connection, 5.08 mm, Number of poles: 14, 90°, Solder pin
Qty.	50 ST	length (I): 3.2 mm, tinned, black, Box
Type	SL 5.08HC/14/90B 3.2SN	Version
Type Order No.	SL 5.08HC/14/90B 3.2SN 1154900000	Version PCB plug-in connector, male header, Dovetails for fixing blocks, THT

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## Counterpart

## **SLDV 5.08/180**



Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

#### General ordering data

Type SLD 5.08V/28/180 3.2SN ... Version
Order No. 1725770000 PCB plug-in conn

Order No. 1725770000 PCB plug-in connector, male header, open side, THT solder
GTIN (EAN) 4032248062065 connection, 5.08 mm, Number of poles: 28, 180°, Solder pin length

Qty. 10 ST (I): 3.2 mm, tinned, orange, Box

#### **SLDV 5.08/180B**



Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

## **General ordering data**

Type SLD 5.08V/28/180B 3.2SN... Version
Order No. 1726860000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN) 4032248062744 solder connection, 5.08 mm, Number of poles: 28, 180°, Solder pin
Oty. 10 ST length (I): 3.2 mm, tinned, orange, Box

## **SLDV 5.08/90**



Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

## **General ordering data**

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 Type
 SLD 5.08V/28/90 3.2 SN ...
 Version

 Order No.
 1725290000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4032248060696
 connection, 5.08 mm, Number of poles: 28, 90°, Solder pin length (I):

 Qty.
 10 ST
 3.2 mm, tinned, orange, Box



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## Counterpart

## **SL-SMT** 5.08/180 Box



High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## **General ordering data**

Type	SL-SMT 5.08HC/14/180 1	Version
Order No.	<u>1775722001</u>	PCB plug-in connector, male header, open side, THT/THR solder
GTIN (EAN)	4032248158379	connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
Qty.	50 ST	(I): 1.5 mm, tinned, black, Box
Туре	SL-SMT 5.08HC/14/180 3	Version
Type Order No.	SL-SMT 5.08HC/14/180 3 1838100000	Version PCB plug-in connector, male header, open side, THT/THR solder
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## **SL-SMT 5.08/180G Box**



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## **General ordering data**

/ersion
PCB plug-in connector, male header, closed side, THT/THR solder
connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
I): 1.5 mm, tinned, black, Box
/ersion
PCB plug-in connector, male header, closed side, THT/THR solder
connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length
I): 3.2 mm, tinned, black, Box
): /e



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## Counterpart

#### **SL-SMT 5.08HC/90 Box**



High-temperature-resistant, 90° angled, open male header. Packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

#### General ordering data

 Type
 SL-SMT 5.08HC/14/90 3.2...
 Version

 Order No.
 1780070000
 PCB plug-in connector, male header, open side, THT/THR solder

 GTIN (EAN)
 4032248165391
 connection, 5.08 mm, Number of poles: 14, 90°, Solder pin length (I):

 Qty.
 50 ST
 3.2 mm, tinned, black, Box

#### **SL-SMT 5.08HC/90G Box**



High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

## **General ordering data**

 Type
 SL-SMT 5.08HC/14/90G 3....
 Version

 Order No.
 1780300000
 PCB plug-in connector, male header, closed side, THT/THR solder

 GTIN (EAN)
 4032248165629
 connection, 5.08 mm, Number of poles: 14, 90°, Solder pin length (I):

 Qty.
 50 ST
 3.2 mm, tinned, black, Box

## **SLT 5.08B**



Male plugs with screw TOP wire connection. The male plug provides space for labelling and can be coded.

## **General ordering data**

 Type
 SLT 5.08/14/180B SN OR ...
 Version

 Order No.
 1611830000
 PCB plug-in connector, male plug, 5.08 mm, Number of poles: 14,

 GTIN (EAN)
 4008190192716
 180°, TOP connection, Clamping range, max. : 2.5 mm², Box

 Oty.
 50 ST

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## **Counterpart**

## **SLS 5.08/180 SN**



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

## **General ordering data**

Туре	SLS 5.08/14/180 SN OR BX	Version
Order No.	<u>1627210000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 14,
GTIN (EAN)	4008190199722	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,
Qty.	24 ST	Вох

#### **SLS 5.08/180B**



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

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## **General ordering data**

Туре	SLS 5.08/14/180B SN OR	Version
Order No.	<u>1627360000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 14,
GTIN (EAN)	4008190199876	180°, Clamping yoke connection, Clamping range, max.: 3.31 mm²,
Qty.	24 ST	Вох