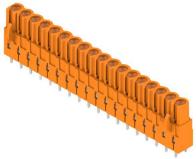




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## **Product image**















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: 18, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box	
Order No.	<u>1648950000</u>	
Туре	BLL 5.08/18/180 3.2 SN OR BX	
GTIN (EAN)	4008190293437	
Qty.	18 items	
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A	
Packaging	Вох	



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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 19.11 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	180°
Number of poles	18	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 ([	D)+ 0,1 mm	L1 in mm	86.36 mm
L1 in inches	3.400 "	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**

Colour	orange
Insulating material group	Illa
Insulation resistance	108 Ω
UL 94 flammability rating	V-0
Contact surface	tinned
Layer structure of plug contact	46 µm Sn hot-dip tinned
Storage temperature, max.	70 °C
Operating temperature, max.	100 °C
Temperature range, installation, max.	100 °C
	Insulating material group Insulation resistance UL 94 flammability rating Contact surface Layer structure of plug contact Storage temperature, max. Operating temperature, max.

#### 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	347.00 mm
VPE width	134.00 mm	VPE height	30.00 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	Additional variants on request

- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- 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
- $\bullet$  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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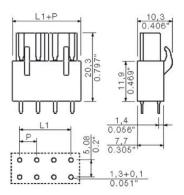
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# **Drawings**

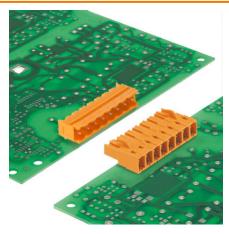
## **Product image**



## **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**

- · · J · · · ·	
BLZ/SL KO BK BX	Version
<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
4008190087142	of poles: 1
50 ST	
BLZ/SL KO OR BX	Version
<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
4008190048396	of poles: 1
	1545710000 4008190087142 50 ST BLZ/SL KO OR BX 1573010000



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## Counterpart

#### 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

 Type
 SL 5.08/18/135 3.2SN OR...
 Version

 Order No.
 1603220000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4008190177263
 connection, 5.08 mm, Number of poles: 18, 135°, Solder pin length

 Qty.
 20 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**

Type SL 5.08/18/135B 3.2SN O... Version
Order No. 1605690000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN) 4008190122683 solder connection, 5.08 mm, Number of poles: 18, 135°, Solder pin
Oty. 20 ST length (I): 3.2 mm, tinned, orange, Box

## 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 5.08/18/180 3.2SN OR	Version
Order No.	<u>1518860000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4008190111137	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, orange, Box

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## Counterpart

#### 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

Type SL 5.08/18/180B 3.2SN O... Version

Order No. 1521160000 PCB plug-in connector, male header, Dovetails for fixing blocks, THT

4008190146696 solder connection, 5.08 mm, Number of poles: 18, 180°, Solder pin

Oty. 20 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.

## **General ordering data**

 Type
 SL 5.08/18/90 3.2SN OR ...
 Version

 Order No.
 1509660000
 PCB plug-in connector, male header, open side, THT solder

 GTIN (EAN)
 4008190188658
 connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):

 Qty.
 20 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.

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### **General ordering data**

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Туре	SL 5.08/18/90B 3.2SN OR	Version
Order No.	<u>1511960000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4008190098155	solder connection, 5.08 mm, Number of poles: 18, 90°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, orange, Box



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## Counterpart

#### 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/18/180 3.2SN	Version
Order No.	1148450000	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248935208	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/180 3.2SN	Version
Type Order No.	SL 5.08HC/18/180 3.2SN 1146630000	Version PCB plug-in connector, male header, open side, THT solder
	, ,	

## 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/18/180B 3.2SN	Version
Order No.	<u>1149930000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248935468	solder connection, 5.08 mm, Number of poles: 18, 180°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/180B 3.2SN	Version
Type Order No.	SL 5.08HC/18/180B 3.2SN 1147830000	Version PCB plug-in connector, male header, Dovetails for fixing blocks, THT

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## Counterpart

#### 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/18/180G 3.2SN	Version
Order No.	<u>1149170000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248935581	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length
Qty.	20 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/180G 3.2SN	Version
Type Order No.	SL 5.08HC/18/180G 3.2SN 1147090000	Version PCB plug-in connector, male header, closed side, THT solder
	, ,	

## 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/18/90 3.2SN B	Version
Order No.	<u>1155240000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4050118050653	connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):
Qty.	20 ST	3.2 mm, tinned, black, Box
Type	SL 5.08HC/18/90 3.2SN O	Version
Type Order No.	SL 5.08HC/18/90 3.2SN O 1147080000	Version PCB plug-in connector, male header, open side, THT solder
	, ,	

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## Counterpart

#### 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**

Type	SL 5.08HC/18/90B 3.2SN	Version
Order No.	1155750000	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4050118049992	solder connection, 5.08 mm, Number of poles: 18, 90°, Solder pin
Qty.	20 ST	length (I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/18/90B 3.2SN	Version
Type Order No.	SL 5.08HC/18/90B 3.2SN 1154940000	Version PCB plug-in connector, male header, Dovetails for fixing blocks, THT
	, ,	

## **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**

Туре	SLD 5.08V/36/180 3.2SN	Version
Order No.	<u>1725810000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248062102	connection, 5.08 mm, Number of poles: 36, 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.

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## Counterpart

## **General ordering data**

Type	SLD 5.08V/36/180B 3.2SN	Version
Order No.	<u>1726900000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248062799	solder connection, 5.08 mm, Number of poles: 36, 180°, Solder pin
Qty.	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**

Туре	SLD 5.08V/36/90 3.2 SN	Version
Order No.	<u>1725330000</u>	PCB plug-in connector, male header, open side, THT solder
GTIN (EAN)	4032248060733	connection, 5.08 mm, Number of poles: 36, 90°, Solder pin length (I):
Qty.	10 ST	3.2 mm, tinned, orange, Box

## **SLDV 5.08/90B**



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**

Туре	SLD 5.08V/36/90B 3.2 SN	Version
Order No.	<u>1726440000</u>	PCB plug-in connector, male header, Dovetails for fixing blocks, THT
GTIN (EAN)	4032248061419	solder connection, 5.08 mm, Number of poles: 36, 90°, Solder pin
Qty.	10 ST	length (I): 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

Qty.

Type SL-SMT 5.08HC/18/180 3.... Version

Order No. <u>1838140000</u> GTIN (EAN) 4032248348206

20 ST

PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length

(I): 3.2 mm, tinned, black, Box

#### **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**

Type SL-SMT 5.08HC/18/180G 3... Version

Order No. 1838370000 PCB plug-in connector, male header, closed side, THT/THR solder

GTIN (EAN) 4032248348435 connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length

Oty. 20 ST (I): 3.2 mm, tinned, black, Box

## **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**

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 Type
 SL-SMT 5.08HC/18/90 3.2...
 Version

 Order No.
 1780110000
 PCB plug-in connector, male header, open side, THT/THR solder

 GTIN (EAN)
 4032248165438
 connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):

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



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## Counterpart

#### **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**

Туре	SL-SMT 5.08HC/18/90G 1	Version
Order No.	<u>1775162001</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4032248156733	connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):
Qty.	20 ST	1.5 mm, tinned, black, Box
Туре	SL-SMT 5.08HC/18/90G 3	Version
Type Order No.	SL-SMT 5.08HC/18/90G 3 1780340000	Version PCB plug-in connector, male header, closed side, THT/THR solder

## **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 5.08/18/180 SN OR BX	Version
Order No.	1644850000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 18,
GTIN (EAN)	4008190284060	180°, Clamping yoke connection, Clamping range, max.: 3.31 mm²,
Qty.	18 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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# Counterpart

## **General ordering data**

Туре	SLS 5.08/18/180B SN OR	Version
Order No.	1645160000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 18,
GTIN (EAN)	4008190284374	180°, Clamping yoke connection, Clamping range, max.: 3.31 mm²,
Qty.	18 ST	Вох