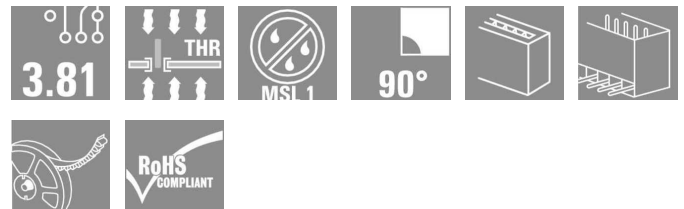


## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/02/90G 3.2SN BK RL

**Weidmüller Interface GmbH & Co. KG**  
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D-32758 Detmold  
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Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com



High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

### General ordering data

Type	SC-SMT 3.81/02/90G 3.2SN BK RL
Order No.	<a href="#">1862810000</a>
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, No. of poles: 2, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω
GTIN (EAN)	4032248427772
Qty.	400 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω

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**Technical data****Dimensions and weights**

Net weight 1.48 g

**System specifications**

Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	Outgoing elbow	90°
No. of poles	2	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0,02 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,04 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+	0,1 mm	Outside diameter of solder pad	2.1 mm
Template aperture diameter	1.9 mm	L1 in mm	3.81 mm
L1 in inches	0.15 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Volume resistance	6.00 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	0 N	Packaging	Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω

**Material data**

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Ta = 20°C)	17.5 A
Rated current, max. no. of poles (Ta = 20°C)	13.9 A	Rated current, min. no. of poles (Ta = 40°C)	17 A
Rated current, max. no. of poles (Ta = 40°C)	12.4 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 76 A

## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/02/90G 3.2SN BK RL

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### Technical data

#### Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B)	300 V	Rated current (use group B)	8 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

#### Notes

Notes	<ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>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.</li> <li>P on drawing = pitch</li> </ul>
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

#### Approvals

Approvals	
ROHS	Conform

**Data sheet****OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/02/90G 3.2SN BK RL**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

[Select your download](#)

SMT white paper

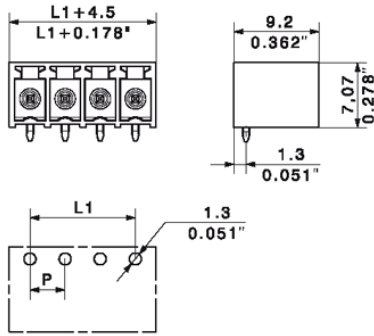
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Safety notice

[Safety indication](#)

**Data sheet****OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/02/90G 3.2SN BK RL**

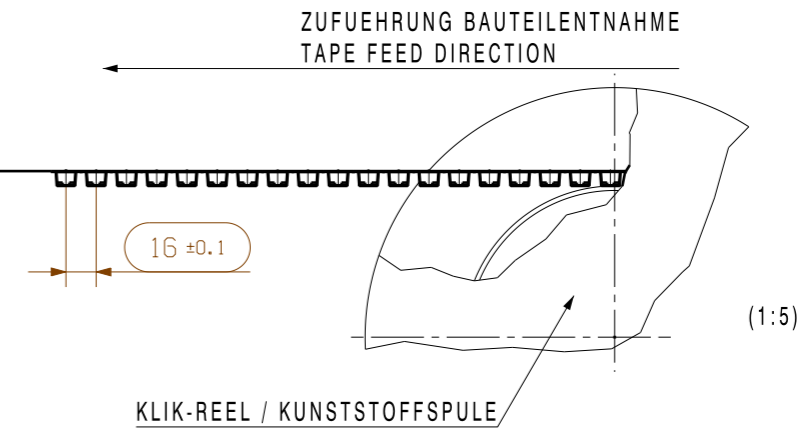
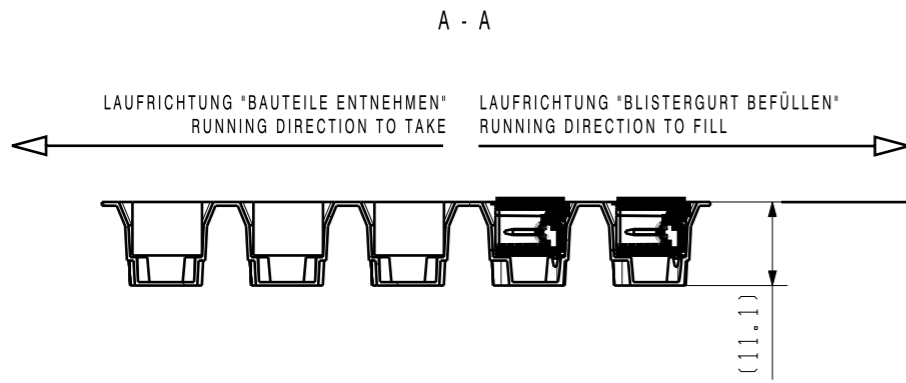
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**Drawings**

MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE  
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

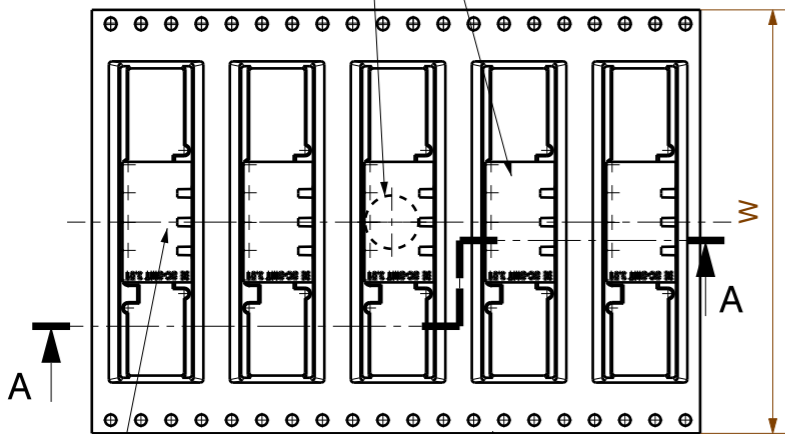
DIE DEUTSCHE VERSION IST VERBINDLICH  
THE GERMAN VERSION IS BINDING

# New Universal-Tape



SHOWN: SC-SMT 3.81/04/180G 1.5 ..

PICK AND PLACE AREA MAX.  $\phi 7$



(1:1)  
22

GERADE POLZAHL DARGESTELLT/  
EVEN POLE NUMBER SHOWN

UNGERADE POLZAHL DREHUNG STIFBLEISTE UM 180°/  
UNEVEN POLE NUMBER PIN HEADER ROTATED 180°

STIFBLEISTEN MÜSSEN MITTIG IM TAPE SITZEN /  
PIN HEADER ASSEMBLED IN THE MIDDLE

TAPEBREITE/ TAPEWIDTH (MAT.NR.)	POL ZAHL NO OF POLS	SC-SMT 3.81/././90.. 1.5 BK		SC-SMT 3.81/././90.. 3.2 BK		SC-SMT 3.81/././90.. 2.1 BK		SC-SMT 3.81/././90.. 1.5 OR	
		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.	
W	n	G	LF	G	LF	G	LF	G	LF
32 (1437290000)	2	1863140000	1862720000	1862810000	1863890000	2429820000		1105060000	
	3	1863150000	/	1862840000	/	2128630000	/		/
	4	1863160000	/	1862860000	/		/		/
44 (2017990000)	3	/	1862750000	/	1863970000	/		/	
	4	/	1862770000	/	1863980000	/		/	
	5	1863170000	1862790000	1862870000					
	6	1863180000	1862820000	1862880000					
	7	1863190000	/		/		/		/
	8	1863200000	/	1862900000	/		/		/
56 (1348070000)	7	/	1862830000	/		/		/	
	8	/	1862850000	/		/		/	
	9	1863210000	/		/		/		/
88 (1396710000)	10	1863220000	/	1862930000	/		/		/
	9	/	1430360000	/	1430370000	/		/	
	10	/	1430380000	/	1430390000	/		/	
	11	1430230000	1430400000		1430420000				
	12	1430250000	1430430000	1430240000	1359450000				
	13	1430270000	1430440000	1430260000	1430450000				
	14	1430290000	1430470000	1430280000	1430480000				
	15	1430330000	1430490000	1430320000	1430500000				
16	1430350000	1430510000	1430340000	1430520000					

TAPE UND REEL GEMAESS IEC 286-3 (EN 60286-3) /  
TAPE AND REEL ACCORDING TO IEC 286-3 (EN 60286-3)

84755/5 04.11.15 AMANN_A 02		CAT.NO.: .	
MODIFICATION		<b>Weidmüller</b>	
DATE	NAME	DRAWING NO. <b>3 36136</b> 22	
11.11.2004	POCTA_C	SHEET 05 OF 05 SHEETS	
RESPONSIBLE	AMANN_A	<b>SC-SMT 3.81/02...16/90</b> STIFBLEISTE MALE PLUG In Prüfung / Verification	
CHECKED			
APPROVED	LANG_T		
SCALE: 5:1		PRODUCT FILE: SC-SMT 3.81	
SUPERSEDES: .		7278	

WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.  
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 WEIDMUELLER INTERFACE GmbH & Co.KG

## Recommended wave soldering profiles

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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.

## Recommended reflow soldering profile

**Weidmüller Interface GmbH & Co. KG**  
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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.



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