

TOP1.5GS11/90 7 2STI OR**Weidmüller Interface GmbH & Co. KG**

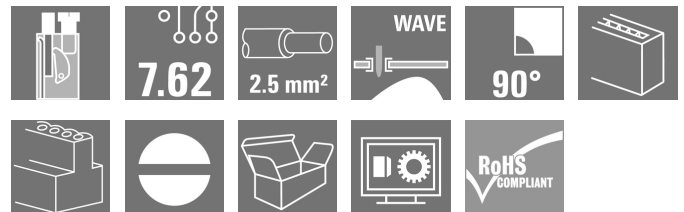
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

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Conductor entry and screw connection in the same direction on this PCB terminal with 7.62 mm pitch for conductor cross-sections up to 2.5 mm². Conductor outlet direction 90° and 180°.

General ordering data

Version	Printed circuit board terminals, 7.62 mm, Number of poles: 11, 90°, Solder pin length (l): 3.5 mm, tinned, orange, TOP connection, Clamping range, max.: 2.5 mm ² , Box
Order No.	0394060000
Type	TOP1.5GS11/90 7 2STI OR
GTIN (EAN)	4032248189205
Qty.	20 pc(s).
Product data	IEC: 1000 V / 24 A / 0.5 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box
Delivery status	This article will no longer be available in the future.
Available until	2023-03-31

Creation date April 27, 2024 7:06:16 AM CEST

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Technical data

Dimensions and weights

Depth	19.5 mm	Depth (inches)	0.768 inch
Height	22 mm	Height (inches)	0.866 inch
Height of lowest version	18.5 mm	Width	85.62 mm
Width (inches)	3.371 inch	Net weight	45.65 g

System parameters

Product family	OMNIMATE Signal - series TOP1.5GS	Wire connection method	TOP connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	7.62 mm	Pitch in inches (P)	0.3 "
Number of poles	11	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (l)	3.5 mm	Solder pin dimensions	0.8 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	2	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Stripping length	10 mm	L1 in mm	76.2 mm
L1 in inches	3 "	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
Volume resistance	1.20 mΩ		

Material data

Insulating material	PA	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-2	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	1.5...3 μm Ni / 4...6 μm Sn
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	2.5 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, min.	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²

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Technical data

Plug gauge in accordance with EN 60999 a x b; ø

2.4 mm x 1.5 mm

Clampable conductor

Cross-section for conductor connection	Type	fine-wired	
	nominal	0.5 mm ²	
wire end ferrule	Stripping length	nominal	12 mm
	Recommended wire-end ferrule	H0.5/16 OR	
	Stripping length	nominal	10 mm
	Recommended wire-end ferrule	H0.5/10	
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm ²	
wire end ferrule	Stripping length	nominal	12 mm
	Recommended wire-end ferrule	H0.75/16 W	
	Stripping length	nominal	10 mm
	Recommended wire-end ferrule	H0.75/10	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm ²	
wire end ferrule	Stripping length	nominal	12 mm
	Recommended wire-end ferrule	H1.0/16D R	
	Stripping length	nominal	10 mm
	Recommended wire-end ferrule	H1.0/10	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1.5 mm ²	
wire end ferrule	Stripping length	nominal	10 mm
	Recommended wire-end ferrule	H1.5/10	
	Stripping length	nominal	12 mm
	Recommended wire-end ferrule	H1.5/16 R	
Cross-section for conductor connection	Type	fine-wired	
	nominal	2.5 mm ²	
wire end ferrule	Stripping length	nominal	10 mm
	Recommended wire-end ferrule	H2.5/10	

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)	19 A	Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated voltage for surge voltage class / pollution degree III/3	400 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
		Short-time withstand current resistance	3 x 1s with 120 A

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Technical data

Rated data acc. to CSA

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
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14

Rated data acc. to UL 1059

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
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14

Packing

Packaging	Box	VPE length	223 mm
VPE width	179 mm	VPE height	67 mm

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	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	ECLASS 13.0	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.
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Notes	<ul style="list-style-type: none"> Additional variants on request 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 Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes. 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 maximum humidity 70%, 36 months
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Approvals

ROHS	Conform
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Technical data

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.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

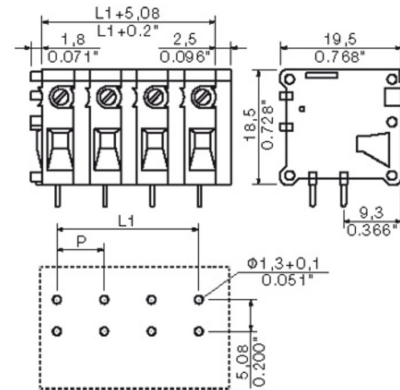
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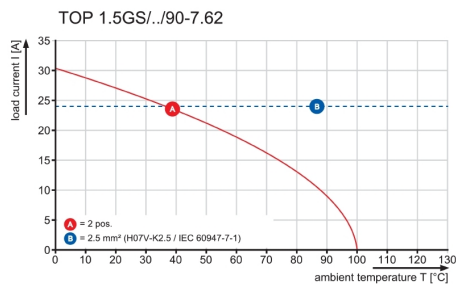
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Drawings

Dimensional drawing



Graph



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www.weidmueller.com**Accessories****Mounting blocks****Minor component, major effect:**

Clip-on attachment elements increase the mechanical resilience of the circuit board terminals.

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

General ordering data

Type	TOP1.5GS BB OR	Version		Product data		Packaging	
Order No.	1539860000			Printed circuit board terminals, Accessories, Mounting block, orange,		Box	
GTIN (EAN)	4008190061692			Number of poles: 1			
Qty.	20 pc(s).						

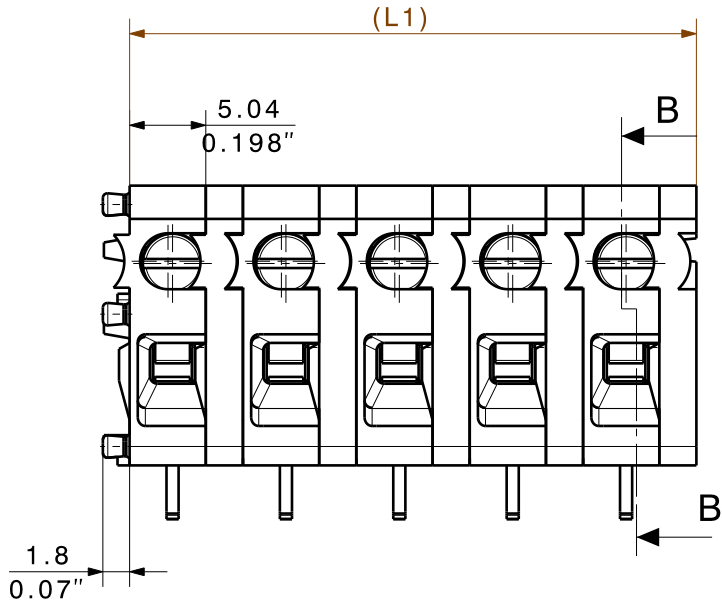
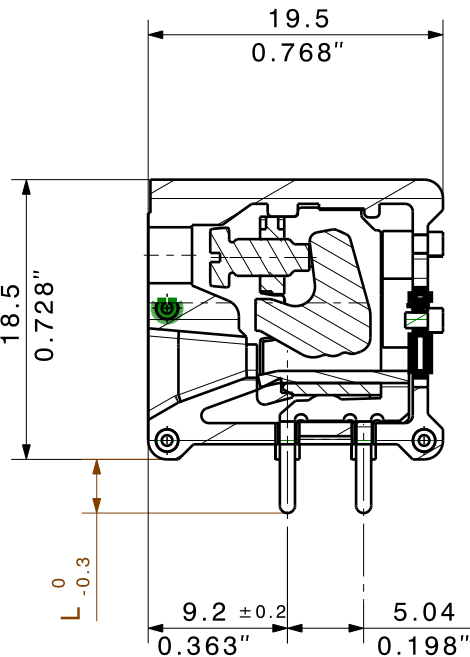
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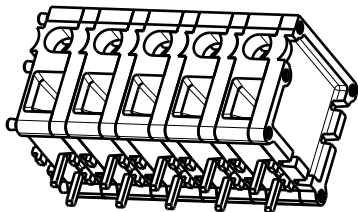
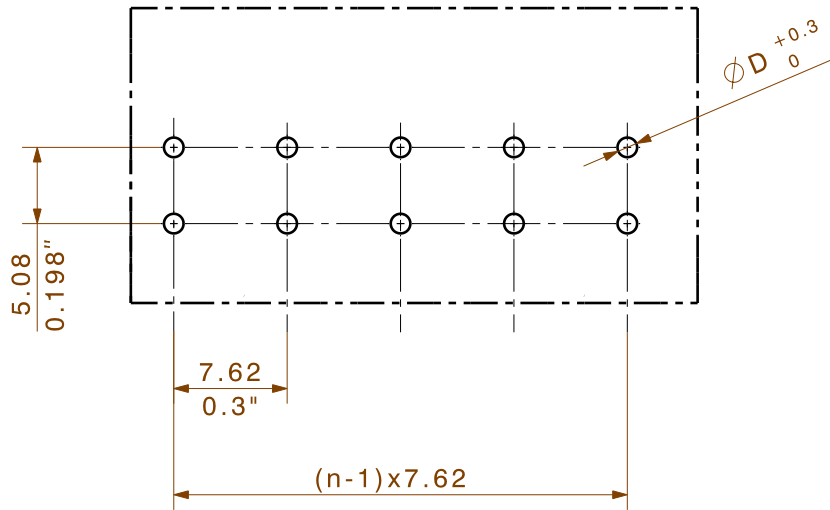
DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

Technical Data

Rev.		Material data	
		Insulation material type	PA 66
		Insulation material colours	S 33230
		Insulation material flammability class	UL94
		Insulation resistance	MOhm
		Contact base material	CuZn
		Contact plating (mating end)	Tin-plated
		Contact plating (solder end)	n/a
		System characteristic values together with counterpart	
		Pitch P	mm/inch
		Number of rows	1
		Dielectric strength (r.m.s withstand voltage)	kV
		Conductor connection methode	TOP connection
		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	wave soldering
		Solder pin diameter d (max.)	mm/inch
		Application notes	
		Coding possibility	yes/no
		Joinable without loss of pitch	yes/no
		Manual assembly of modules	yes/no
		Max. number of poles	n
		IEC 664-1 / VDE0110 (4.97) rated data	
		Rated cross section acc. to EN 60999	mm²
		Rated current @ 20°C ambient (together with)	A
		Rated current @ 40°C ambient (together with)	A
		Overvoltage category / Pollution degree	III/3 III/2 II/2
		Rated voltage	V
		Rated impulse voltage	kV
		UL 1059 rated data File No.: E60693	
		Rated voltage	V
		Rated current	A
		Clamping range	mm² / AWG
		CSA C22.2 rated data File No.: LR12400	
		Rated voltage	V
		Rated current	A
		Clamping range	mm² / AWG
		Packaging	
		carton	
		Downloads	
		www.weidmueller.de	



Drilling Diagram



12	91,44	3,600
11	83,82	3,300
10	76,20	3,000
9	68,58	2,700
8	60,96	2,400
7	53,34	2,100
6	45,72	1,800
5	38,10	1,500
4	30,48	1,200
3	22,86	0,900
2	15,24	0,600
1	7,62	0,300
n	L1 [mm]	L1 [Inch]

- 1) Without locking latches
- 2) Sum of ambient temperature and temperature rise
- 3) Recommendation for manual assembly
- 4) Recommendation for automatic assembly
- 5) Recommendation for wave soldering
- 6) Recommendation for reflow soldering
- 7) Referred to rated cross section and minimum pole number

n.a. = not applicable

Subject to technical changes

For the mounting of PCBs, it should be noted that the rated data stated here 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 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 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.

02 Zeichnung komplett überarbeitet

METRIC TOLERANCES: X. = ±0.3 X.X = ±0.1 X.XX = ±0.05		35928/5 05.09.06 KRUG_M 01		CAT.NO.: .	
MODIFICATION		Weidmüller		C 33230 02	
METRIC/INCH DIMENSIONS		DATE	NAME	DRAWING NO.	ISSUE NO.
SCALE: 2:1		DRAWN	06.04.2004 HEINEL_M	SHEET 3	OF 4 SHEETS
SUPERSEDES:		RESPONSIBLE	KRUG_M	TOP 1.5 GS /90 2STI	
SUPERSEDED BY: .		CHECKED	05.09.2006 HECKERT_M		
		APPROVED	GUENTHER_W	PRODUCT FILE:	

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.

We reserve the right to make technical changes.