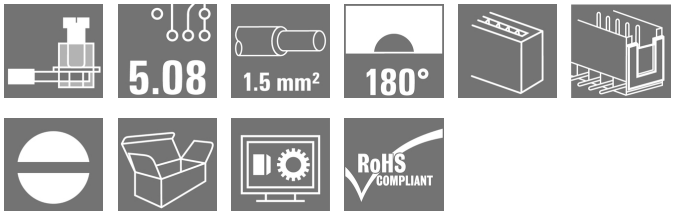
SLS 5.08/08/180TB RF15 SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 8, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box
Order No.	1846070000
Type	SLS 5.08/08/180TB RF15 SN OR BX
GTIN (EAN)	4032248362356
Qty.	10 pc(s).
Product data	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm² UL: 300 V / 14 A / AWG 26 - AWG 12
Packaging	Box

Creation date March 25, 2021 7:59:48 PM CET

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Technical data

Dimensions and weights

Depth	39.4 mm	Depth (inches)	1.551 inch
Height	30 mm	Height (inches)	1.181 inch
Net weight	19 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08
Type of connection	Field connection
Wire connection method	Clamping yoke connection
Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch
Conductor outlet direction	180°
Number of poles	8
L1 in mm	35.56 mm
L1 in inches	1.4 inch
Number of rows	1
Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back-of-hand-safe unplugged
Volume resistance	≤5 mΩ
Stripping length	7 mm
Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264
Plugging cycles	25
Tightening torque	Torque type: Wire connection Usage information: Tightening torque: min. 0.4 Nm; max. 0.5 Nm

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10^8 Ω
UL 94 flammability rating	V-0	Contact material	CuSn
Contact surface	tinned	Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm²
Clamping range, max.	3.31 mm²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm²
Solid, max. H05(07) V-U	2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm²

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Technical data

w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm²			
Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.5 mm²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire-end ferrule	H0,5/6	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1 mm²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire-end ferrule	H1,0/6	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H1,5/7	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H2,5/7	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.75 mm²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire-end ferrule	H0,75/6	
Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage.			

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	21.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	18 A
Rated current, max. number of poles (Tu=40°C)	14 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		

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)	15 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12

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Technical data

Rated data acc. to UL 1059

Institute (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)	14 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	45 mm
VPE width	131 mm	VPE height	226 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ECLASS 9.0	27-44-03-09	ECLASS 9.1	27-44-03-09
ECLASS 10.0	27-44-03-09	ECLASS 11.0	27-46-02-02

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 colours 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 • 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 average humidity 70%, 36 months

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	STEP
Engineering Data	WSCAD

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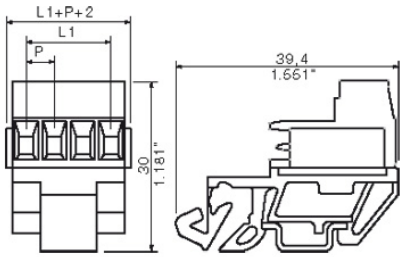
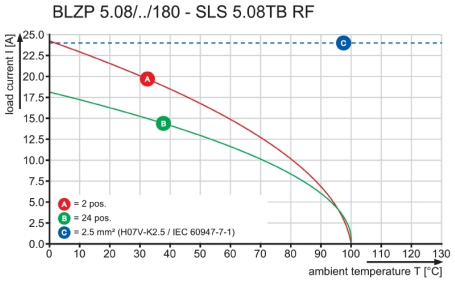
Drawings

Dimensional drawing



Graph



Technical Data

Rev.

Material data		
Insulation material type		PBT
Insulation material colours		see order sheet
Insulation material flammability class	UL94	V-0
Insulation resistance	MOhm	$>10^5$
Contact base material		Cu-alloy
Contact plating		tin-plated

System characteristic values	with counterpart	BLZ 5.08 180°	
Pitch **P**	mm/inch	5.08/0.2	
Number of rows		1	
Dielectric strength (r.m.s withstand voltage)	kV	>2.21	
Mechanical operating cycles	acc. to IEC 512	25	
Plug in force (max.)	N/pole	10	1)
Pull out force (max.)	N/pole	8	1)
Through resistance (typical)	mOhm	3.2	
Operating temperature range	°C	-55...+100	2)
Degree of protection acc. to VDE 0106 (plugged/unplugged)		finger safe / back of hands	
Degree of protection acc. to DIN EN 60529 (plugged/unplugged)		IP20 / IP10	
Conductor connection method		clamping yoke	
Screw size		M2.5	
Screw torque max. acc. to EN 60999	Nm	0.4	
Screw driver type		SD 0.6 x 3.5	

Application notes		
Coding possibility	yes/no	yes (accessory)
Joinable without loss of pitch	yes/no	no
Manual assembly of modules	yes/no	no
Max. number of poles	n	24

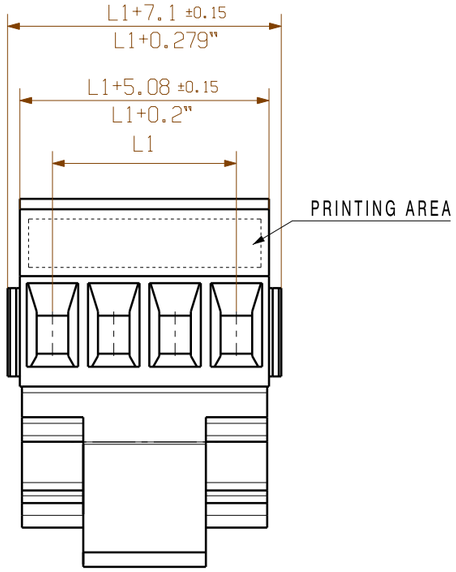
Conductor		
Clamping range	mm^2	0.08...2.5
"e" solid H05(07) V-U	mm^2	0.5...2.5
"f" flexible H05(07) V-K	mm^2	0.5...2.5
"f" with ferrule acc. to DIN 46228/1	mm^2	0.5...2.5
... with plastic collar acc. to DIN 46228/4	mm^2	0.5...1.5
Conductor insulation stripping length	mm/inch	7/0.276
Conductor insulation diameter max.	mm/inch	n.a.
Two wire clamping range	mm^2	n.a.
Gauge to EN 60999 (a x b ; Ø)	mm	2.8 x 2.4 ; 2.4

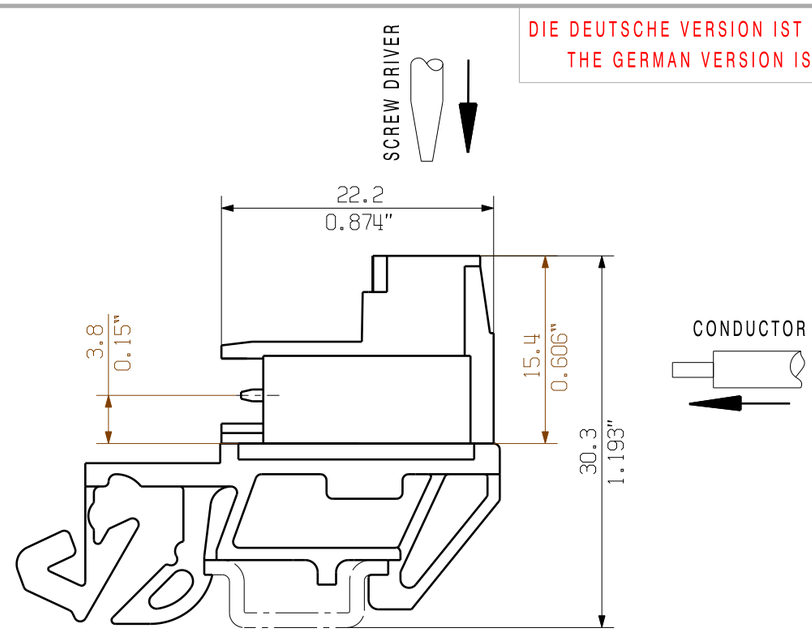
IEC 664-1 / VDE0110 (4.97) rated data					
Rated cross section acc. to EN 60999	mm^2	2.5			
Rated current @ 20°C ambient (together with)	A	21 (BLZ 5.08 180°)			3)
Rated current @ 40°C ambient (together with)	A	18 (BLZ 5.08 180°)			3)
Overvoltage category / Pollution degree		**III/3**	**III/2**	**II/2**	
Rated voltage	V	250	320	400	
Rated impulse voltage	kV	4.0	4.0	4.0	

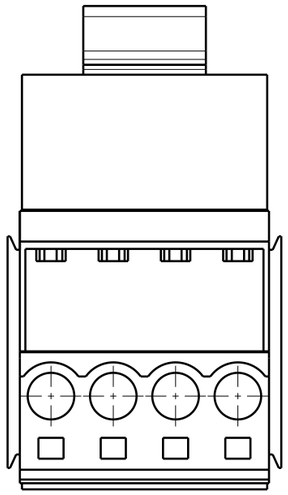
UL 1059 rated data — File No.: E60693		B	C	D
Rated voltage	V	300	-	300
Rated current	A	15	-	10
AWG wire range (field wiring / factory wiring)		26...12		

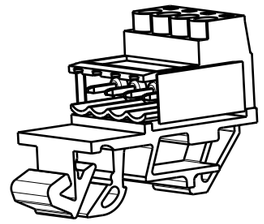
CSA C22.2 rated data — File No.: LR12400		B	C	D
Rated voltage	V	300	-	300
Rated current	A	14	-	10
AWG wire range (field wiring / factory wiring)		26...12		

Packaging	carton
Downloads	www.weidmueller.de









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1) Without locking latches
2) Sum of ambient temperature and temperature rise
3) 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 neccessary 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 occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

SHOWN:SLS 5.08/4TB RF15

METRIC TOLERANCES:
X. = ±0.3
X.X = ±0.1
X.XX = ±0.05

40262/0
14.05.08 HELIS_MA 00
MODIFICATION

CAT.NO.:

Weidmüller

C 34203 02
DRAWING NO. ISSUE NO.
SHEET 01 OF 03 SHEETS

		DATE	NAME
	DRAWN	16.05.2008	HECKERT_M
	RESPONSIBLE		HERTEL_S
SCALE: 2/1	CHECKED	16.05.2008	HECKERT_M
SUPERSEDES: 4 34203/01	APPROVED		HECKERT_M

SLS 5.08TB RF15
STIFTLEISTE
PIN HEADER

PRODUCT FILE: SLS 5.08 7314