

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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PCB terminal for fully automatic assembly in reflow soldering (SMT), with Push In conductor connection system. Conductor inserted and slider operated in same direction (TOP). Packed in box or as tape on reel. Pin lengths optimised at 1.5 mm or 3.5 mm.

General ordering data

Printed circuit board terminals, 5.08 mm, Number of poles: 7, 180°, Solder pin length (I): 1.5 mm, black, PUSH IN with actuator, Clamping range, max.: 1.5 mm², Tube
<u>1870260000</u>
LSF-SMT 5.08/07/180 1.5SN BK TU
4032248447343
15 items
IEC: 500 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 12 A / AWG 28 - AWG 14
Tube



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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	F60693

Dimensions and weights

Depth	7.8 mm	Depth (inches)	0.3071 inch
Height	15.5 mm	Height (inches)	0.6102 inch
Height of lowest version	14 mm	Width	34.68 mm
Width (inches)	1.3654 inch	Net weight	6.67 g

Temperatures

Continuous operating temp., max. 120 °C

Environmental Product Compliance

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

System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN with actuator
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	180°
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.200 "
Number of poles	7	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	1.5 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.35 x 0.8 mm	Solder pin dimensions = d tolerance	0 / -0.1 mm
Solder eyelet hole diameter (D)	1.1 mm	Solder eyelet hole diameter tolerance (I	O)+ 0,1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	30.48 mm	L1 in inches	1.200 "
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	1.60 mΩ

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Layer structure of solder connection	46 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	120 °C		





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Conductors suitable for connection				
Clamping range, min.	0.13 mm ²			
Clamping range, max.	1.5 mm ²			
Wire connection cross section AWG,	AWG 28			
min.				
Wire connection cross section AWG,	AWG 14			
max.				
Solid, min. H05(07) V-U	0.2 mm ²			
Solid, max. H05(07) V-U	1.5 mm ²			
Flexible, min. H05(07) V-K	0.2 mm ²			
Flexible, max. H05(07) V-K	1.5 mm ²			
w. plastic collar ferrule, DIN 46228 pt	4, 0.25 mm ²			
min.				
w. plastic collar ferrule, DIN 46228 pt	4, 0.75 mm ²		·	
max				

max.
w. wire end ferrule, DIN 46228 pt 1, 0.25 mm²

w. wire end ferrule, DIN 46228 pt 1, 1.5 mm²

max.

Clampable conductor	Cross-section for conductor connection	n nominal 0.25 mm ²	
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	nominal	0.34 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,75/14T HBL

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, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles $(Tu=20^{\circ}C)$	17.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	15 A	Rated voltage for surge voltage class / pollution degree II/2	500 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	Short-time withstand current resistance	3 x 1s with 80 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1664286
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 28	Wire cross-section, AWG, max.	AWG 14

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Technical data

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	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)	12 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Tube	VPE length	556.00 mm
VPE width	24.00 mm	VPE height	15.00 mm
Surface resistance	Rs = 109 - 1012 Ω		

Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03		
	Test	mark of origin, type identification, pitch, approval marking UL, durability		
	Evaluation	available		
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02		
	Conductor type	Type of conductor solid 0.14 mm ² and conductor cross-section		
		Type of conductor stranded 0.14 mm ² and conductor cross-section		
		Type of conductor solid 1.5 mm ² and conductor cross-section		
		Type of conductor stranded 1.5 mm ² and conductor cross-section		
		Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
		Type of conductor AWG 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00		
loosening of conductors	Requirement	0.2 kg		
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section		
		Type of conductor AWG 28/19 and conductor cross-section		
	Evaluation	passed		

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	Requirement	0.3 kg		
	Conductor type	Type of conductor stranded 0.25 mm ² and conductor cross-section		
		Type of conductor solid 0.5 mm ² and conductor cross-section		
	Evaluation	aluation passed		
	Requirement	0.4 kg		
	Conductor type	Type of conductor solid 1.5 mm ² and conductor cross-section		
		Type of conductor stranded 1.5 mm ² and conductor cross-section		
		Type of conductor AWG 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00		
	Requirement	≥10 N		
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
	Evaluation	Evaluation passed		
	Requirement	≥20 N		
	Conductor type	Type of conductor stranded 0.25 mm² and conductor cross-section		
		Type of conductor H05V-U0.5 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥40 N		
	Conductor type	Type of conductor H07V-U1.5 and conductor cross- section		
		Type of conductor H07V-K1.5 and conductor cross-section		
		Type of conductor AWG 16/1 and conductor cross-section		
		Type of conductor AWG 16/19 and conductor cross-section		
	Evaluation	passed		

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 push button colours on request
- Operating force of slider max. 40 N
- Rated current related to rated cross-section & min. No. of poles.



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- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	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	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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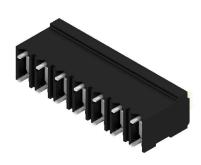
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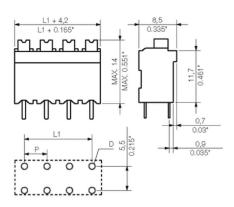
Drawings

Product image



LSF-SMT 5.08/07/180 1.5SN BK TU

Dimensional drawing



Graph Graph

