



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

### **Product image**

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**

Version	Printed circuit board terminals, 3.81 mm, Number of poles: 16, 90°, Solder pin length (I): 3.5 mm, black, PUSH IN with push button, Clamping range, max.: 1.5 mm², Tube
Order No.	<u>1871230000</u>
Туре	LSF-SMT 3.81/16/90 3.5SN BK TU
GTIN (EAN)	4032248448654
Qty.	9 items
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 12 A / AWG 28 - AWG 14
Packaging	Tube





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## **Technical data**

Approvals
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Approvals		
ROHS	Conform	
UL File Number Search	UL Website	
Certificate No. (cURus)	E60693	

### **Dimensions and weights**

Depth	14.75 mm	Depth (inches)	0.5807 inch
Height	13.15 mm	Height (inches)	0.5177 inch
Height of lowest version	8.5 mm	Width	61.35 mm
Width (inches)	2.4153 inch	Net weight	12.44 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 push button
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	90°
Pitch in mm (P)	3.81 mm	Pitch in inches (P)	0.150 "
Number of poles	16	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	3.5 mm	Solder pin length tolerance	0 / -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 ([	D)+ 0,1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	57.15 mm	L1 in inches	2.250 "
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	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Copper 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		

### **Conductors suitable for connection**

Clamping range, min.	0.13 mm <sup>2</sup>	
Clamping range, max.	1.5 mm²	

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Wire connection cross section AWG, min.	AWG 28		
······	AWG 14		
Wire connection cross section AWG, max.	AWG 14		
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>		
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>		
w. plastic collar ferrule, DIN 46228 pt 4 min.	4, 0.25 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 max.	4, 0.75 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.34 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm <sup>2</sup>
	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 of diameter of the plastic collar should not be large		d voltage., The outside

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 60947-7-4	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	14 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 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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# LSF-SMT 3.81/16/90 3.5SN BK TU

## **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	555.00 mm
VPE width	20.00 mm	VPE height	10.00 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, durability
	Evaluation	available
	Test	approval marking UL
	Evaluation	on packaging label
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 <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.14 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 1.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 1.5 mm <sup>2</sup> 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 24/1 and conductor cross-section

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

### Important note

IPC conformity

Pull-out test

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.







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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.
- 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

EC002643	ETIM 7.0	EC002643
EC002643	ETIM 9.0	EC002643
EC002643	ECLASS 9.0	27-44-04-01
27-44-04-01	ECLASS 10.0	27-44-04-01
27-46-01-01	ECLASS 12.0	27-46-01-01
27-46-01-01	ECLASS 14.0	27-46-01-01
27-46-01-01		
	EC002643 EC002643 27-44-04-01 27-46-01-01 27-46-01-01	EC002643 ETIM 9.0 EC002643 ECLASS 9.0 27-44-04-01 ECLASS 10.0 27-46-01-01 ECLASS 12.0 27-46-01-01 ECLASS 14.0





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<b>Drawings</b>	www.weidmueller.com	
Product image	Dimensional drawing	
Graph	Graph	





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## **Accessories**

### **Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

### **General ordering data**

Туре	SDIS 0.4X2.5X75	Version
Order No.	9008370000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056330	
Qty.	1 ST	
Туре	SDS 0.4X2.5X75	Version
Type Order No.	SDS 0.4X2.5X75 9009030000	Version Screwdriver, Screwdriver