



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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## **Product image**

Small, compact PCB terminal or -tier PCB terminal with proven clamping yoke connection and 3.5 mm pitch. Suitable for conductor cross-sections up to 1.5 mm<sup>2</sup>.

## **General ordering data**

Version	Printed circuit board terminals, 3.50 mm, Number of poles: 7, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Clamping yoke connection, Clamping range, max.: 2.08 mm², Box
Order No.	<u>1845060000</u>
Туре	LM 3.50/07/90 3.2SN OR BX
GTIN (EAN)	4032248357871
Qty.	72 items
Product data	IEC: 320 V / 16 A / 0.5 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Вох





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# **Technical data**

Α	p	p	r	o	ν	a	I	s

Approvals		
ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate No. (UR)	E60693	

## **Dimensions and weights**

Depth	8.3 mm	Depth (inches)	0.3268 inch
Height	16 mm	Height (inches)	0.6299 inch
Height of lowest version	12.8 mm	Width	25.1 mm
Width (inches)	0.9882 inch	Net weight	4.07 g

### **Environmental Product Compliance**

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

## **System parameters**

Product family	OMNIMATE Signal - series LM	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	3.50 mm	Pitch in inches (P)	0.138 "
Number of poles	7	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	24	Solder pin length (I)	3.2 mm
Solder pin dimensions	1.0 x 0.6 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance ([	D)+ 0,1 mm	Number of solder pins per pole	1
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2 Nm	Tightening torque, max.	0.25 Nm
Clamping screw	M 2	Stripping length	5 mm
L1 in mm	21.00 mm	L1 in inches	0.827 "
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	3.60 mΩ

#### **Material data**

Insulating material	PA	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-2
Contact material	Cu-alloy	Contact surface	tinned
Coating	1-3 μm Ni, 4-6 μm SN	Tinning type	matt
Layer structure of solder connection	1.53 µm Ni / 46 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

#### **Conductors suitable for connection**

Clamping range, min.	0.08 mm <sup>2</sup>
Clamping range, max.	2.08 mm <sup>2</sup>
Wire connection cross section AWG,	AWG 28
min	

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Wire connection cross section AWG,	AWG 14		
max.			
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>		
Solid, max. H05(07) V-U	1.5 mm²		
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	1.5 mm²		
w. plastic collar ferrule, DIN 46228 pt omin.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 0.75 mm²		
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	Туре	fine-wired
		nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,75/12 W
Reference text	Length of ferrules is to be chosen depending diameter of the plastic collar should not be la	•	d voltage., The outsid

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	16 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	14 A
Rated current, max. number of poles (Tu=40°C)	10 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 72 A

### Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	154685-1202192
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Rated data acc. to UL 1059

Institute (UR)	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)	10 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	Box	VPE length	353.00 mm
VPE width	136.00 mm	VPE height	25.00 mm

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# **Technical data**

#### Type tests

Test: Durability of markings	Standard	EN 60947-1 section 5.1 / 91
	Test	type identification, mark of origin, type of material
	Evaluation	available
Test: Clampable cross section	Standard	DIN EN 60999 section 6 / 04.94, EN 60 947-1 section 8.2.4.5.1 / 03.91
	Conductor type	Type of conductor solid 0.08 mm² and conductor cross-section
		Type of conductor stranded 0.08 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 28/1 and conductor cross-section
		Type of conductor AWG 28/19 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 section 8.4 / 04.94
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section
		Type of conductor AWG 28/7 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	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 16/7 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section





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# **Technical data**

	Evaluation	passed
Pull-out test	Standard	DIN EN 60999 section 8.4 / 04.94
	Requirement	≥5 N
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section
		Type of conductor AWG 28/7 and conductor cross-section
	Evaluation	passed
	Requirement	≥30 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section
		Type of conductor H05V-K0.5 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 16/7 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 variants on request
- · Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- 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 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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Drawings	www.weidmueller.com	
Product image	Dimensional drawing	
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
Order No.	9009030000	Screwdriver, Screwdriver
OTINI (FANI)	4032248266944	
GTIN (EAN)	4032246200944	