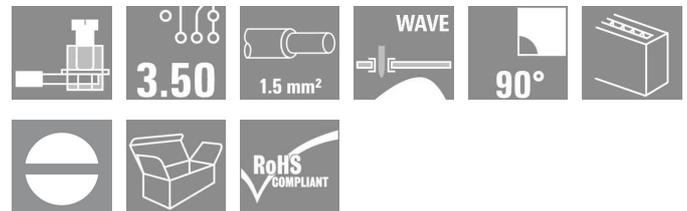


## OMNIMATE Signal - series LM LM2N 3.50/04/90 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



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>.

- 0.20 - 1.50 mm<sup>2</sup> (IEC) / 28 - 14 AWG (UL)
- 320 V (IEC) / 300 V (UL)
- 16 A (IEC) / 10 A (UL)

### General ordering data

Type	LM2N 3.50/04/90 3.2SN OR BX
Order No.	<a href="#">1703700000</a>
Version	PCB terminal, 3.50 mm, No. of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Clamping yoke connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box
GTIN (EAN)	4008190910778
Qty.	100 pc(s).
Product data	IEC: 320 V / 13 A / 0.5 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box

Creation date February 3, 2014 3:27:05 PM CET

**OMNIMATE Signal - series LM  
LM2N 3.50/04/90 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data****Dimensions and weights**

Net weight 2.86 g

**System characteristics**

Product family	OMNIMATE Signal - series LM	Wire connection method	Clamping yoke connection
Mounting onto the PCB	Solder connection	Conductor outlet direction	90°
Pitch in mm (P)	3.5 mm	Pitch in inches (P)	0.138 inch
No. of poles	4	Fitted by customer	Yes
Max. adjacent poles per row	24	Solder pin length (l)	3.2 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.	0.2 Nm	Clamping screw	M 2
Stripping length	5 mm	L1 in mm	3.5 mm
L1 in inches	0.138 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

**Material data**

Insulating material	PA	Colour	Orange
UL 94 flammability rating	V-2	CTI	≥ 600
Temperature of glow-wire test	750 °C	Duration of glow-wire test	30 s
Contact material	Cu-Leg	Contact surface	tinned
Contact base material	Cu-Leg		

**Connectable conductors**

Clamping range, rated connection, min.	0.08 mm <sup>2</sup>	Clamping range, rated connection, max.	2.08 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 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.	0.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm <sup>2</sup>
Plug gauge acc. to EN 60999 a x b; Ø	2.4 mm x 1.5 mm		

**DIN IEC rating data**

Rated current, min. no. of poles (Tu=20°C)	13 A	Rated current, max. no. of poles (Tu=20°C)	12 A
Rated current, number of poles (Tu=40°C), min	11 A	Rated current, number of poles (Tu=40°C), max.	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		

**Data sheet**

**OMNIMATE Signal - series LM  
LM2N 3.50/04/90 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data**

**CSA rating data**

Institute (CSA)				Rated voltage (Use group B)	
				300 V	
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V		
Rated current (use group D)	10 A	Wire cross-section, AWG, min.	AWG 28		
Wire cross-section, AWG, max.	AWG 14				

**UL 1059 rating data**

Institute (UR)				Rated voltage (use group B)	
				300 V	
Rated current (use group B)	10 A	Rated voltage (use group D)	300 V		
Rated current (use group D)	10 A	Wire cross-section, AWG, min.	AWG 28		
Wire cross-section, AWG, max.	AWG 14				

**Classifications**

ETIM 3.0	EC001284	UNSPSC	30-21-18-01
eClass 6.2	27-26-11-01	eClass 7.1	27-44-04-01

**Notes**

- Notes
- Additional colours 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.

**Approvals**

Approvals			
ROHS	Conform		

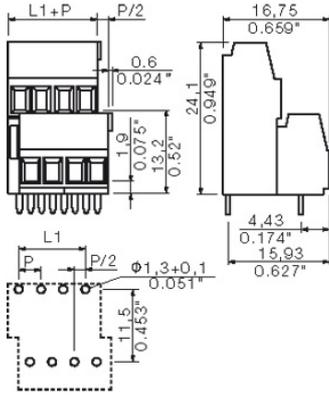
**Downloads**

CAD Library (P-CAD Format - ASCII)	<a href="#">LM2N.zip</a>
CAD Library (P-CAD Format - Standard)	<a href="#">LM2N.zip</a>
<a href="#">3-D model</a>	

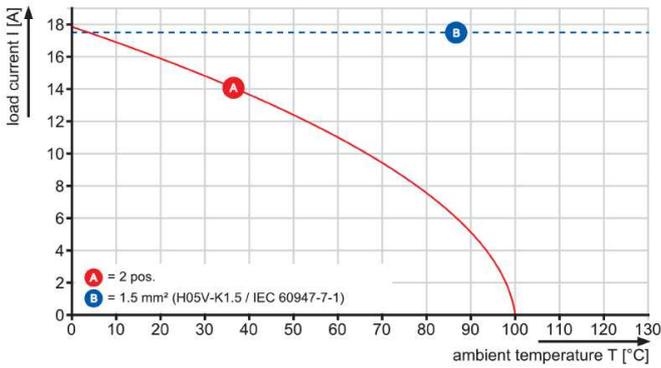
**OMNIMATE Signal - series LM  
LM2N 3.50/04/90 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

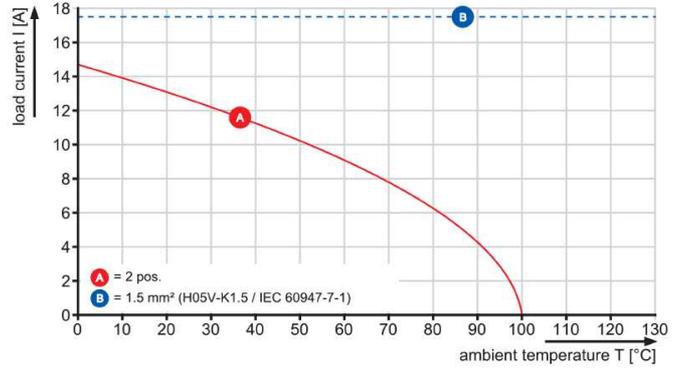
**Drawings**



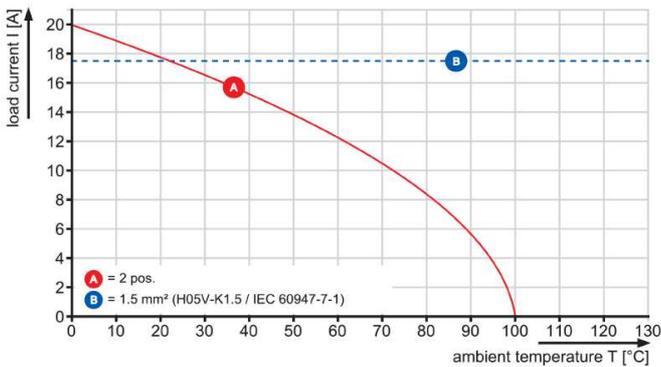
LM 3.5/./90



LM1N 3.5/./90



LM 3.5/./135



LM2N 3.5/./90

