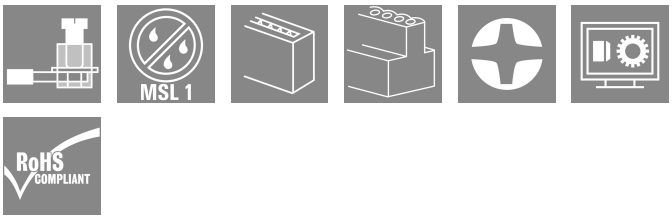
Data sheet

LHZ-SMT R 1.5SN BK BX

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

www.weidmueller.com

Product image



Naturally, the CH20M system also shows its detailed perfection in the peripheral interface.
If you are taking into consideration design options, processing, usability, reliability and security, then pin headers and connectors are just as critical in the real world as the entire system.
In every sector, the connection technology is at the top of its class.

- 100% safe protected against accidental touch
- 100% efficient fully compatible with reflow soldering
- 100% time and cost savings During the installation: the quick all-purpose "Multi-Tool" screw head ensures a secure contact, user-friendly operation and less complexity. Additional features, such as the "Wire ready" technology, enable you to minimize wiring costs and increase customer satisfaction.

General ordering data

Version	Printed circuit board terminals, Connection element, right, block assembly, closed side, THR solder connection, 0.00 mm, Number of poles: 1, Solder pin length (l): 1.5 mm, tinned, black, Box
Order No.	1137880000
Type	LHZ-SMT R 1.5SN BK BX
GTIN (EAN)	4032248919734
Qty.	306 items
Product data	IEC: 500 V / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box

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Technical data

Approvals

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

Dimensions and weights

Depth	23.5 mm	Depth (inches)	0.9252 inch
Height	17 mm	Height (inches)	0.6693 inch
Height of lowest version	4.3 mm	Width	6.1 mm
Width (inches)	0.2402 inch	Net weight	2.26 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 Housing - series CH20M6	Type of connection	Clamping yoke connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	0.00 mm
Conductor outlet direction	90°	Number of poles	1
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Protection degree	IP20
Stripping length	6 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 3
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264

Material data

Insulating material	LCP	Colour	black
Colour of operational elements	grey	Colour chart (similar)	RAL 9011
Insulating material group	IIIa	Comparative Tracking Index (CTI)	175 ≤ CTI <400
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact surface	tinned	Coating	nickel-plated
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm²	Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	2.5 mm²
Stranded, min. H07V-R	1.5 mm²	Stranded, max. H07V-R	2.5 mm²

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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.	0.25 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	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm²
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, max. number of poles (Tu=20°C)	13 A
Rated current, max. number of poles (Tu=40°C)	13 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		

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)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14

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)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
Creepage distance, min.	2.4 mm	Clearance distance, min.	1.6 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Material data

UL 94 flammability rating	V-0	Insulating material	LCP
Insulating material group	IIIa	Comparative Tracking Index (CTI)	175 ≤ CTI <400

General data

Colour	black	Protection degree	IP20
Colour chart (similar)	RAL 9011		

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.

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Classifications

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

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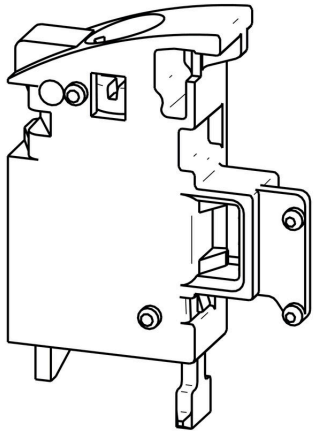
Drawings