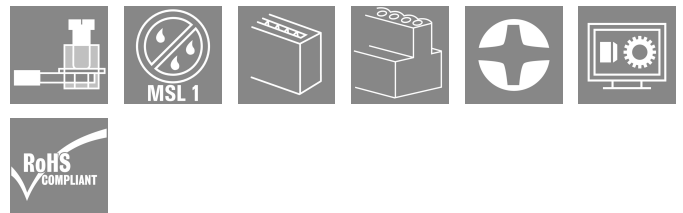


LHZ-SMT R 1.5SN BK RL

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, Tape |
| Order No. | 2418590000 |
| Type | LHZ-SMT R 1.5SN BK RL |
| GTIN (EAN) | 4032248984343 |
| Qty. | 432 items |
| Product data | IEC: 500 V / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 14 |
| Packaging | Tape |

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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 | 3.31 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 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 mm ² | Clamping range, max. | 2.5 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Solid, min. H05(07) V-U | 0.2 mm ² | Solid, max. H05(07) V-U | 2.5 mm ² |
| Stranded, min. H07V-R | 1.5 mm ² | Stranded, max. H07V-R | 2.5 mm ² |

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| | | | |
|---|---|--|---------------------|
| Flexible, min. H05(07) V-K w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min. | 0.2 mm ² | Flexible, max. H05(07) V-K w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | 2.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |
| 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 | Basic material | Plastic |
| 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

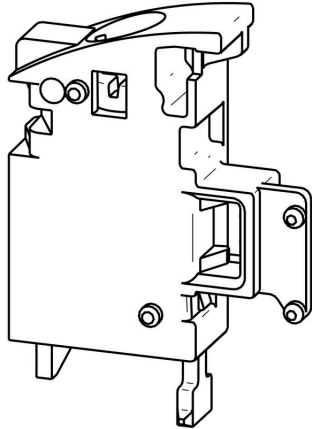
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002643 | ETIM 9.0 | EC002643 |
| ETIM 10.0 | EC002643 | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 | | |

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Drawings

www.weidmueller.com



Example of use

