

**CH20M BUS 4.50/05 AU/250****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****The integrated rail bus for the modular electronics housing system**

When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system-wide solution.

The system bus is securely integrated within the 35-mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

- **Unlimited scalability** The integrated connection solution covers all system widths: from the 6-mm slice to the 67-mm large-area housing.
- **Easy to service during installation** It's easy to replace a module, even in existing modules groups – without any influence on the neighbouring modules.
- **Universal integration** The uninterrupted system bus is securely integrated within the 35-mm standard mounting rail.
- **Maximum availability** Five fully-galvanized and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

**General ordering data**

|            |                                                                 |
|------------|-----------------------------------------------------------------|
| Version    | OMNIMATE Housing - series CH20M, Length: 250 mm, Width: 21.8 mm |
| Order No.  | <a href="#">1248220000</a>                                      |
| Type       | CH20M BUS 4.50/05 AU/250                                        |
| GTIN (EAN) | 4050118053234                                                   |
| Qty.       | 10 pc(s).                                                       |

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Height         | 1.7 mm     | Height (inches) | 0.067 inch |
| Length         | 250 mm     | Length (inches) | 9.842 inch |
| Net weight     | 23.1 g     | Width           | 21.8 mm    |
| Width (inches) | 0.858 inch |                 |            |

## Material data

|                           |             |                        |           |
|---------------------------|-------------|------------------------|-----------|
| Colour                    | black, gold | Colour chart (similar) | RAL 9011  |
| UL 94 flammability rating | V-0         | Contact material       | Au (Gold) |
| Contact surface           | Gold-plated |                        |           |

## System parameters

|                                                              |        |                                                     |        |
|--------------------------------------------------------------|--------|-----------------------------------------------------|--------|
| Coating thickness Au, min.                                   | 0.5 µm | Coating thickness Au, max.                          | 0.8 µm |
| Coating thickness Cu, min.                                   | 0.7 µm | Current carrying capacity, max. per circuit path    | 5 A    |
| Current carrying capacity, max. circuit path (sum current)   | 25 A   | Voltage AC bus rail according to DIN EN 60664, max. | 63 V   |
| Voltage AC bus rail according to UL840, C22.2 no. 14.5, max. | 30 V   |                                                     |        |

## General data

|        |                                         |                        |          |
|--------|-----------------------------------------|------------------------|----------|
| Colour | black, gold                             | Colour chart (similar) | RAL 9011 |
| Rail   | TS 35 x 7.5, TS 35 x 15, via bus profil |                        |          |

## Material data

|                           |     |
|---------------------------|-----|
| UL 94 flammability rating | V-0 |
|---------------------------|-----|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001031    | ETIM 7.0    | EC001031    |
| ECLASS 9.0  | 27-18-27-90 | ECLASS 9.1  | 27-18-27-90 |
| ECLASS 10.0 | 27-18-27-92 | ECLASS 11.0 | 27-18-27-92 |

## Approvals

Approvals



ROHS

Conform

## Downloads

|                  |                       |
|------------------|-----------------------|
| Engineering Data | <a href="#">STEP</a>  |
| Engineering Data | <a href="#">EPLAN</a> |