

## CH20M BUS 4.50/05 AU/750

**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    | Mounting rail bus system, Bus circuit board, OMNI-MATE Housing - series CH20M, Width: 750 mm |
| Order No.  | <a href="#">1248240000</a>   |
| Type       | CH20M BUS 4.50/05 AU/750   |
| GTIN (EAN) | 4050118053210  |
| Qty.       | 5 items  |

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## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

|            |         |                 |              |
|------------|---------|-----------------|--------------|
| Depth      | 1.5 mm  | Depth (inches)  | 0.0591 inch  |
| Height     | 21.8 mm | Height (inches) | 0.8583 inch  |
| Width      | 750 mm  | Width (inches)  | 29.5275 inch |
| Net weight | 54 g    |                 |              |

### Environmental Product Compliance

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

### Material data

|                           |             |                             |           |
|---------------------------|-------------|-----------------------------|-----------|
| Colour                    | black       | Colour chart (similar)      | RAL 9011  |
| UL 94 flammability rating | V-0         | Contact material            | Au (Gold) |
| Contact surface           | Gold-plated | Operating temperature, max. | 120 °C    |

### Material data

|                           |         |                |      |
|---------------------------|---------|----------------|------|
| UL 94 flammability rating | V-0     | Surface finish | gold |
| Basic material            | Plastic |                |      |

### General data

|               |   |                        |                         |
|---------------|---|------------------------|-------------------------|
| Colour        | black                                   | Protection degree      | IP20 in installed state |
| Mounting rail | TS 35 x 7.5, TS 35 x 15, via bus profil | Colour chart (similar) | RAL 9011                |

### 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, 30 V C22.2 no. 14.5, max. |        |   |        |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001031    | ETIM 9.0    | EC001031    |
| ETIM 10.0   | EC001031    | ECLASS 14.0 | 27-18-27-92 |
| ECLASS 15.0 | 27-18-27-92 |             |             |

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## Accessories

### Network-compatible current measuring transducers ACT20C



The ACT20C series was especially developed for applications with continuous processes. It enables the continuous monitoring of diagnostic, device and process information ("condition monitoring"). Several ACT20C components form a station which consists of an ACT20C Ethernet gateway, communicative ACT20C signal converters and an ACT20C bus termination terminal.

### General ordering data

|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | ACT20C-LBT-10              | Version  |  |
| Order No.  | <a href="#">1510340000</a> | Bus termination terminal for ACT20C station, Input : 0...40/50/60 A, |  |
| GTIN (EAN) | 4050118319491              | Output : Pulse   |  |
| Qty.       | 1 ST                       |  |  |