

**MHS 6****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**The narrow gauge solution for a wide application spectrum:**

MICROBOX sets new standards in modern housing technology. The closed housing offers high functionality in a width of just 6.1 mm.

Maximum performance, minimum width:

- 6 easy to use clamping points in 2 connection systems
- Clamping yoke connection for conductors up to 2.5mm<sup>2</sup>
- Tension clamp connection for conductors up to 1.5mm<sup>2</sup>
- Vibration-resistant contacts
- Vibration-free terminal rail mounting
- Enclosure wall clipped on securely

Miniaturisation with the MICROBOX: high component density is possible due to the narrow design.

MICROBOX helps developers to fulfil demanding market requirements for ever shrinking dimensions by optimising space utilisation.

**General ordering data**

|            |                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------|
| Version    | Mounting rail housing, OMNIMATE Housing - MICROBOX Pebble grey, Complete enclosure, Connection technology, Width: 6.1 mm |
| Order No.  | <a href="#">1925740000</a>                                                                                               |
| Type       | MHS 6                                                                                                                    |
| GTIN (EAN) | 4032248567935                                                                                                            |
| Qty.       | 10 pc(s).                                                                                                                |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Height     | 97.8 mm | Height (inches) | 3.85 inch  |
| Width      | 6.1 mm  | Width (inches)  | 0.24 inch  |
| Length     | 88 mm   | Length (inches) | 3.465 inch |
| Net weight | 33.1 g  |                 |            |

## Rated data acc. to IEC

|                                                                       |       |                                                                           |       |
|-----------------------------------------------------------------------|-------|---------------------------------------------------------------------------|-------|
| Rated current, max. number of poles (Tu=20°C)                         | 10 A  | Rated current, max. number of poles (Tu=40°C)                             | 10 A  |
| Rated voltage for surge voltage class / pollution degree II/2         | 400 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  |

## Material data

|                           |            |                           |      |
|---------------------------|------------|---------------------------|------|
| Insulating material       | Wemid (PA) | Insulating material group | IIIa |
| UL 94 flammability rating | V-0        |                           |      |

## General data

|                      |             |                        |          |
|----------------------|-------------|------------------------|----------|
| Colour               | Pebble grey | Colour chart (similar) | RAL 7032 |
| Encapsulation option | Yes         | Protection degree      | IP20     |

## Design - IN requirements

|               |      |                             |         |
|---------------|------|-----------------------------|---------|
| PCB thickness | 1 mm | Tolerance for the PCB shape | ±0.1 mm |
|---------------|------|-----------------------------|---------|

## Assembly properties

|                                             |                           |                                        |                          |
|---------------------------------------------|---------------------------|----------------------------------------|--------------------------|
| Number of connection levels                 | 3                         | Continuous current of cross-connection | 10 A                     |
| Continuous current of cross-connection/ PCB | 32 A                      | Cross-connection                       | Yes                      |
| Type of contact to PCB                      | Solder connection, direct | Type of connection                     | Clamping yoke connection |

## Connectable conducteurs

|                                         |                      |                                         |                   |
|-----------------------------------------|----------------------|-----------------------------------------|-------------------|
| Clamping range, min.                    | 0.13 mm <sup>2</sup> | Clamping range, max.                    | 4 mm <sup>2</sup> |
| Wire connection cross section AWG, min. | AWG 26               | Wire connection cross section AWG, max. | AWG 12            |
| Solid, min. H05(07) V-U                 | 0.5 mm <sup>2</sup>  | Solid, max. H05(07) V-U                 | 4 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K              | 0.5 mm <sup>2</sup>  | Max. clamping range                     | 4 mm <sup>2</sup> |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001031    | ETIM 7.0    | EC001031    |
| ETIM 8.0    | EC001031    | ETIM 9.0    | EC001031    |
| ECLASS 9.0  | 27-18-27-02 | ECLASS 9.1  | 27-18-27-92 |
| ECLASS 10.0 | 27-18-27-02 | ECLASS 11.0 | 27-18-27-02 |
| ECLASS 12.0 | 27-18-27-02 | ECLASS 13.0 | 27190204    |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

|                         |                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Data        | <a href="#">CAD data – PCB contour with soldering pads</a><br><a href="#">CAD data – STEP</a>                                                                                                                                     |
| Technical Documentation | <a href="#">PCB contour drawing</a>                                                                                                                                                                                               |
| Catalogues              | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                          |
| Brochures               | <a href="#">FL ANALO.SIGN.CONV. EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a><br><a href="#">PO OMNIMATE EN</a> |

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## Drawings

