

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

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DIN rail housing, Set consisting of upper housing part and connection technology, width: 45.2 mm, height: 99 mm, depth: 45.85 mm, color: green (6021)



### Your advantages

- ✓ Item is from the ME product range
- ✓ Tool-free mounting
- ✓ Available in overall widths from 12.5 mm to 90 mm, modular extension is possible
- ✓ Inflammability class V0 according to UL 94
- ✓ Variety of connection technologies
- ✓ Can be mounted on the DIN rail
- ✓ Optional bus connector that is either integrated or mounted on the DIN rail



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 170011 |
| GTIN         | 4017918170011                                                                                           |

### Technical data

#### Item properties

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Brief article description | Upper part of housing                                          |
| Type                      | ME 45 OT-MSTBO SET                                             |
| Order No.                 | 2909905                                                        |
| Housing type              | DIN rail housing                                               |
| Type                      | Set consisting of upper housing part and connection technology |
| Max. IP code to attain    | IP20                                                           |
| Mounting type             | Latching with lower housing part                               |
| Connection levels         | 2 (Both sides)                                                 |
| Max. number of positions  | 32 (pitch: 5 mm)                                               |

# Upper part of housing - ME 45 OT-MSTBO SET - 2909905

## Technical data

### Item properties

|  |   |
|--|---|
|  | ) |
|  | ) |

### Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width [ w ]                         | 45.2 mm  |
| Height [ h ]                        | 99 mm    |
| Depth [ d ]                         | 45.85 mm |
| Depth from base support surface [d] | 38.5 mm  |

### Material data

|                                        |              |
|----------------------------------------|--------------|
| Housing material                       | Polyamide    |
| Color (RAL)                            | green (6021) |
| Flammability rating according to UL 94 | V0           |

### Ambient conditions

|                                         |                                                    |
|-----------------------------------------|----------------------------------------------------|
| Ambient temperature (storage/transport) | -40 °C ... 55 °C                                   |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                   |
| Ambient temperature (operation)         | -40 °C ... 105 °C (depending on power dissipation) |
| Relative humidity (storage/transport)   | 80 %                                               |

### PCB data

|                       |                                |
|-----------------------|--------------------------------|
| Number of PCB holders | 2                              |
| PCB thickness         | 1.4 mm ... 1.8 mm              |
| Mounting position     | Vertical (horizontal DIN rail) |
| Type of PCB mount     | Latching                       |

### Mechanical strength/tumbling barrel

|                       |                     |
|-----------------------|---------------------|
| Specification         | IEC 60998-1:2002-12 |
| Height of fall        | 50 cm               |
| Number of drop cycles | 10                  |

### Vibration test

|                        |                        |
|------------------------|------------------------|
| Specification          | IEC 60068-2-6:2007-12  |
| Frequency              | 10 - 150 - 10 Hz       |
| Sweep speed            | 1 octave/min           |
| Amplitude              | 0.15 mm (10 - 58.1 Hz) |
| Acceleration           | 2g (58.1 - 150 Hz)     |
| Test duration per axis | 2.5 h                  |
| Test directions        | X-, Y- and Z-axis      |

### Shock

|                |                        |
|----------------|------------------------|
| Specification  | IEC 60068-2-27:2008-02 |
| Pulse shape    | Half-sine              |
| Acceleration   | 15g                    |
| Shock duration | 11 ms                  |

# Upper part of housing - ME 45 OT-MSTBO SET - 2909905

## Technical data

### Shock

|                                |                                   |
|--------------------------------|-----------------------------------|
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

### Thermostability (Ball Thrust Test)

|               |                        |
|---------------|------------------------|
| Specification | IEC 60695-10-2:2014-02 |
| Temperature   | 125 °C                 |
| Test duration | 1 h                    |
| Force         | 20 N                   |

### Test for assessing the risk of fire (glow wire)

|                  |                                           |
|------------------|-------------------------------------------|
| Specification    | DIN EN 60695-2-11 (VDE 0471-2-11):2014-11 |
| Temperature      | 850 °C                                    |
| Time of exposure | 30 s                                      |

### Degrees of protection provided by housings (IP code)

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Specification                         | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
| Result, degree of protection, IP code | IP20                                              |

### General information

|              |                                                                       |
|--------------|-----------------------------------------------------------------------|
| Type of note | Assembly instruction:                                                 |
| Note         | Refer to the data sheet for the range in the download area.           |
| Type of note | Recommendation                                                        |
| Note         | Material of contact pads for bus connector, galvanic gold (hard gold) |

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 1                   |
| Denomination packing units | Pcs.                |
| Outer packaging type       | Carton              |

### Standards and regulations

|                                        |     |
|----------------------------------------|-----|
| Connection in acc. with standard       | CUL |
| Flammability rating according to UL 94 | V0  |

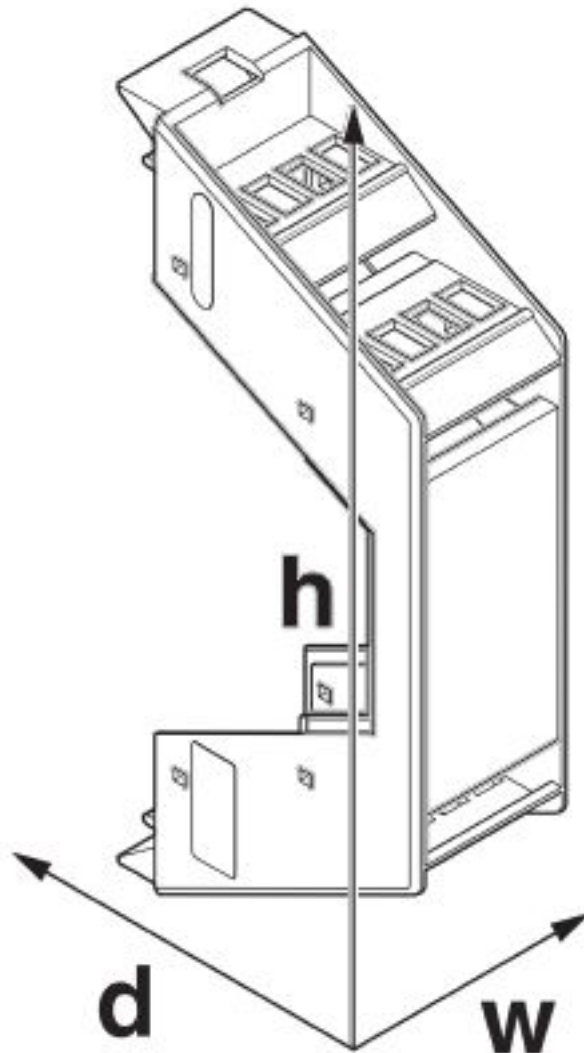
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

Dimensional drawing



### Articles in set

Upper part of housing - ME 45 OT-MSTBO GN - 2909743



DIN rail housing, Upper housing part for connectors with header, width: 45.2 mm, height: 99 mm, depth: 45.85 mm, color: green (6021)

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Articles in set

Feed-through header - MSTBO 2,5/ 4-G1L - 1861060



PCB headers, number of positions: 4, pitch: 5 mm, color: green, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 3.5 mm, Article with lateral pin exit

Feed-through header - MSTBO 2,5/ 4-G1R - 1861073



PCB headers, number of positions: 4, pitch: 5 mm, color: green, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 3.5 mm, Article with lateral pin exit

Printed-circuit board connector - MSTBT 2,5/ 4-ST - 1779851



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 4, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27182702 |
| eCl@ss 4.0    | 27180400 |
| eCl@ss 4.1    | 27180400 |
| eCl@ss 5.0    | 27180500 |
| eCl@ss 5.1    | 27180500 |
| eCl@ss 6.0    | 27180800 |
| eCl@ss 7.0    | 27182702 |
| eCl@ss 8.0    | 27182702 |
| eCl@ss 9.0    | 27182702 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001031 |
| ETIM 3.0 | EC001031 |
| ETIM 4.0 | EC001031 |
| ETIM 5.0 | EC001031 |
| ETIM 6.0 | EC001031 |
| ETIM 7.0 | EC001031 |

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |
| UNSPSC 18.0   | 31261501 |
| UNSPSC 19.0   | 31261501 |
| UNSPSC 20.0   | 31261501 |
| UNSPSC 21.0   | 31261501 |

### Approvals

#### Approvals

#### Approvals

cUL Recognized / EAC / UL Recognized / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                   | D                                                                                                                                                     |              |
| Nominal voltage UN | 250 V                                                                               | 300 V                                                                                                                                                 |              |
| Nominal current IN | 12 A                                                                                | 10 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 30-12                                                                               | 30-12                                                                                                                                                 |              |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-------------------------------------------------------------------------------------|---------|

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                   | D                                                                                                                                                     |              |
| Nominal voltage UN | 250 V                                                                               | 300 V                                                                                                                                                 |              |
| Nominal current IN | 12 A                                                                                | 10 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 30-12                                                                               | 30-12                                                                                                                                                 |              |

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Approvals

cULus Recognized



### Accessories

#### Accessories

#### Fiber optic

Fiber optic - HS LC-H-D3/ R1XC1 - 2202313



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

Fiber optic - HS LC-H-5X2/ R1XC1 - 2202314



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

Fiber optic - HS LC-H-D3/ R2XC1-5,08 - 2202315



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

Fiber optic - HS LC-H-D2/ R2XC1-2,54 - 2202316



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Accessories

Fiber optic - HS LC-H-D2/ R2XC2-2,54 - 2202317



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R2XC5-2,54 - 2202318



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R2XC10-2,54 - 2202319



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R4XC2-2,54 - 2202320



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R4XC5-2,54 - 2202321



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Accessories

Fiber optic - HS LC-H-D2/ R4XC9-2,54 - 2202322



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R4XC10-2,54 - 2202323



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R2XC1-2,54 - 1036658



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R2XC2-2,54 - 1043044



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R2XC5-2,54 - 1071310



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Accessories

Fiber optic - HS LC-H-D2C/ R2XC10-2,54 - 1071314



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R4XC2-2,54 - 1071316



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R4XC5-2,54 - 1071318

Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R4XC9-2,54 - 1071321



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2C/ R4XC10-2,54 - 1071329



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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### Filler plug

Filler plugs - ME B-22,5 MSTBO GN - 2907156



DIN rail housing, Filler plug for unoccupied terminal points, color: green (6021)

## Upper part of housing - ME 45 OT-MSTBO SET - 2909905

### Accessories

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#### Mounting material

Shield connection clamp - ME-SAS - 2853899



Shield connection clamp for printed circuit terminal block

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Shield connection clamp - ME-SAS MINI - 2200456



Shield connection clamp for PCB terminal blocks up to 1.5 mm<sup>2</sup>

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