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DIN rail housing, Complete housing with metal foot catch, tall design, with vents, width: 45 mm, height: 99 mm, depth: 114.5 mm, cross connection: DIN rail bus connector, number of positions cross connector: 5, color: black (9005)

### Your advantages

- Easy mounting
- Available in overall widths from 6.2 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 with bus connector for DIN rail mounting as well as power connection system







### **Key Commercial Data**

Packing unit	10 pc
Minimum order quantity	100 pc
GTIN	4 046356 285353
GTIN	4046356285353

### Technical data

#### Item properties

Floring to be able
Electronic housing
ME MAX 45 2-2 BK
2278144
DIN rail housing
Complete housing with metal foot catch, tall design
IP20
DIN rail mounting
2



### Technical data

Ventilation openings present

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Dimensions	
Width [w]	45 mm
Height [ h ]	99 mm
Depth [ d ]	114.5 mm
Depth from top edge of DIN rail [ d ]	107 mm

#### Material data

Color (RAL)	black (9005)
Flammability rating according to UL 94	V0
Housing material	Polyamide

#### 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

### Power dissipation, single housing at 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	8.2 W

### Power dissipation, single housing at 30 °C

Ambient temperature	30 °C
Reduction factor	0.91
Mounting position	vertical
Power dissipation	7.45 W

### Power dissipation, single housing at 40 °C

Ambient temperature	40 °C
Reduction factor	0.81
Mounting position	vertical
Power dissipation	6.65 W

### Power dissipation, single housing at 50 °C

Ambient temperature	50 °C



### Technical data

### Power dissipation, single housing at 50 °C

Reduction factor	0.7
Mounting position	vertical
Power dissipation	5.75 W

### Power dissipation, single housing at 60 °C

Ambient temperature	60 °C
Reduction factor	0.57
Mounting position	vertical
Power dissipation	4.65 W

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

### 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.

### Packaging information

Type of packaging	packed in cardboard
Pieces per package	10
Denomination packing units	Pcs.
Outer packaging type	Carton



## Technical data

### Standards and regulations

Flammability rating according to UL 94	V0
Environmental Product Compliance	
China RoHS	Environmentally friendly use period: unlimited = EFUP-e

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### 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

### **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

Approvals

**UL** Recognized

Ex Approvals

### Approval details

**UL** Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 240868

### 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





### Accessories

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)

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)

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)

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)

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





### Accessories

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)

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)

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)

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)

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





### Accessories

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)

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)

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)

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)

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)

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





### Accessories

Filler plug

Filler plugs - ME MAX B-22,5 KMGY - 2707929



DIN rail housing, Filler plug for unoccupied terminal points, width: 20 mm, height: 21.6 mm, color: light gray (7035)

#### Ground contact

Functional earth ground contact - ME FE-CONTACT - 2908294



DIN rail housing, FE contact with soldering lug, color: silver

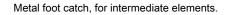
Functional earth ground contact - ME BUS FE CONTACT - 2278076



DIN rail housing, FE contact, color: silver

#### Mounting material

Base latch - ME MF 17,5 - 2908281





### Necessary add-on products

Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380



PCB headers, number of positions: 5, pitch: 3.5 mm, color: light gray, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 2 mm, Article with lateral pin exit



### Accessories

Feed-through header - MCO 1,5/ 5-G1R-3,5 KMGY - 2278351



PCB headers, number of positions: 5, pitch: 3.5 mm, color: light gray, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 2 mm, Article with lateral pin exit

Feed-through header - MSTBO 2,5/ 4-G1PL GY7035 - 2200325



PCB headers, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Tin, pin layout: Linear pinning, Article with lateral pin exit

Feed-through header - MSTBO 2,5/ 4-G1PR GY7035 - 2200326



PCB headers, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Tin, pin layout: Linear pinning, Article with lateral pin exit

Feed-through header - GMSTBO 2,5 HV/ 3-GL-7,25 THR - 2199663



PCB headers, number of positions: 3, pitch: 7.25 mm, pin layout: Linear pinning

Feed-through header - GMSTBO 2,5 HV/ 3-GR-7,25 THR - 2199566



PCB headers, number of positions: 3, pitch: 7.25 mm, pin layout: Linear pinning



### Accessories

Feed-through header - MSTBO 2,5/4-G1L THRR44 BK - 2697194



PCB headers, number of positions: 4, pitch: 5 mm, color: black, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 2.5 mm

Feed-through header - MSTBO 2,5/4-G1R THRR44 BK - 2697204



PCB headers, number of positions: 4, pitch: 5 mm, color: black, 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-G1L KMGY - 2907774



PCB headers, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Tin, pin layout: Linear pinning, solder pin [P]: 3.5 mm

Feed-through header - MSTBO 2,5/ 4-G1R KMGY - 2907787



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

PCB terminal block - MKDSO 1,5/ 5-L-3,5 KMGY - 2278393



PCB terminal block, pitch: 3.5 mm, number of positions: 5, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3 mm. Article with lateral pin exit



#### Accessories

PCB terminal block - MKDSO 1,5/5-R-3,5 KMGY - 2278416



PCB terminal block, pitch: 3.5 mm, number of positions: 5, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3 mm. Article with lateral pin exit

#### PCB terminal block - MKDSO 2,5/4-L KMGY - 2908485



PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², pitch: 5 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

#### PCB terminal block - MKDSO 2,5/4-R KMGY - 2908472



PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², pitch: 5 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

#### PCB terminal block - MKDSO 2,5 HV/ 3L-7,5 KMGY - 2890946



PCB terminal block, pitch: 7.5 mm, number of positions: 3, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

### PCB terminal block - MKDSO 2,5 HV/ 3R-7,5 KMGY - 2890959



PCB terminal block, pitch: 7.5 mm, number of positions: 3, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit



#### Accessories

PCB terminal block - FKDSO 2.5/ 4-L KMGY - 2200319



PCB terminal block, nominal current: 22 A, rated voltage (III/2): 250 V, nominal cross section: 2.5 mm², pitch: 5 mm, number of positions: 4, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

#### PCB terminal block - FKDSO 2,5/4-R KMGY - 2200320



PCB terminal block, nominal current: 22 A, rated voltage (III/2): 250 V, nominal cross section: 2.5 mm², pitch: 5 mm, number of positions: 4, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

#### PCB terminal block - FKDSO 2,5 HV/3-L 7,5 GY7035 - 2201128



PCB terminal block, nominal current: 22 A, nominal cross section: 2.5 mm², pitch: 7.5 mm, number of positions: 3, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

#### PCB terminal block - FKDSO 2,5 HV/3-R 7,5 GY7035 - 2201129



PCB terminal block, pitch: 7.5 mm, number of positions: 3, color: light gray, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. Article with lateral pin exit

### Printed-circuit board connector - MC 1,5/5-ST-3,5 GY7035 - 1769087



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: light gray, contact surface: Tin



### Accessories

Printed-circuit board connector - FMC 1,5/5-ST-3,5 GY7035 - 1773581



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

Printed-circuit board connector - FK-MCP 1,5/5-ST-3,5 GY7035 - 1773604



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

Printed-circuit board connector - PSPT 2,5/ 4-ST KMGY - 2202344



PCB connector, nominal current: 16 A, rated voltage (III/2): 300 V, nominal cross section: 2.5 mm², number of positions: 4, pitch: 5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin, Color of the spring lever: orange

Printed-circuit board connector - MSTBT 2,5 HC/ 4-STP GY7035 - 2200332



PCB connector, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Tin

Printed-circuit board connector - GMSTBT 2,5 HV/3-ST-7,25 GY7035 - 2199553



PCB connector, number of positions: 3, pitch: 7.25 mm, color: light gray, contact surface: Tin



### Accessories

Feed-through header - MSTBO 2,5/ 4-G1L KMGY AU - 1077607



PCB headers, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Gold, pin layout: Linear pinning

Feed-through header - MSTBO 2,5/4-G1R KMGY AU - 1077608



PCB headers, number of positions: 4, pitch: 5 mm, color: light gray, contact surface: Gold, pin layout: Linear pinning, Article with lateral pin exit

Feed-through header - MSTBO 2,5/ 4-G1L THRR44 BK AU - 1077613



PCB headers, number of positions: 4, pitch: 5 mm, color: black, contact surface: Gold, pin layout: Linear pinning, solder pin [P]: 2.5 mm, Article with lateral pin exit

Feed-through header - MSTBO 2,5/ 4-G1R THRR44 BK AU - 1077614



PCB headers, number of positions: 4, pitch: 5 mm, color: black, contact surface: Gold, pin layout: Linear pinning, solder pin [P]: 2.5 mm, Article with lateral pin exit

### Additional products

DIN rail bus connectors - ME 22,5 TBUS 1,5/4P1S KMGY - 2201732



DIN rail connector for ME and ME-MAX, design width: 22.5 mm, 4 parallel positions and 1 serial position, color: light gray (similar to RAL 7035)



### Accessories

DIN rail bus connectors - ME 22,5 TBUS 1,5/5-ST-3,81 KMGY - 2713722



DIN rail connector, number of positions: 5, pitch: 3.81 mm, color: light gray, contact surface: Gold, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

DIN rail bus connectors - ME 22,5 TBUS ADAPTER KMGY - 2201756



DIN rail bus adapter for ME and ME-MAX, design width: 22.5 mm, 5 parallel positions, color: light gray (similar to RAL 7035)

Power connector - PCO 22,5-L KMGY - 2201685



Power connector for ME-MAX housing, design width: 22.5 mm, 2-pos., used to transmit a total current of up to 42 A at 60 V DC.

Filler plugs - ME MAX TBUS BS KMGY - 2199650



DIN rail housing, Filler plugs for TBUS recess, width: 5.8 mm, height: 30 mm, depth: 6.6 mm, color: light gray (7035)

End clamp - E/ME TBUS NS35 GY - 2713780



End clamp, stable construction for DIN rail bus connector



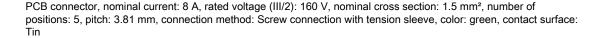
### Accessories

Plug - MC 1,5/5-ST-3,81 AU - 1860883



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 5, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Gold, pin layout: Linear three-way pinning

Printed-circuit board connector - IMC 1,5/5-ST-3,81 - 1857919





Cross connection - PBR 42A BU - 2201916



Jumper for PCO power connector in ME-MAX housing, color: blue (similar to RAL 5015)

Cross connection - PBR 42A GY - 2201917



Jumper for PCO power connector in ME-MAX housing, color: gray (similar to RAL 7042)

Cross connection - PBR 42A RD - 2201915



Jumper for PCO power connector in ME-MAX housing, color: red (similar to RAL 3000)



### Accessories

Shield connection clamp - ME-SAS - 2853899



Shield connection clamp for printed circuit terminal block

Coding section - CR MSTBO-G1 - 2199618



Coding section, inserted into the recess in the header or the inverted plug, red insulating material

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