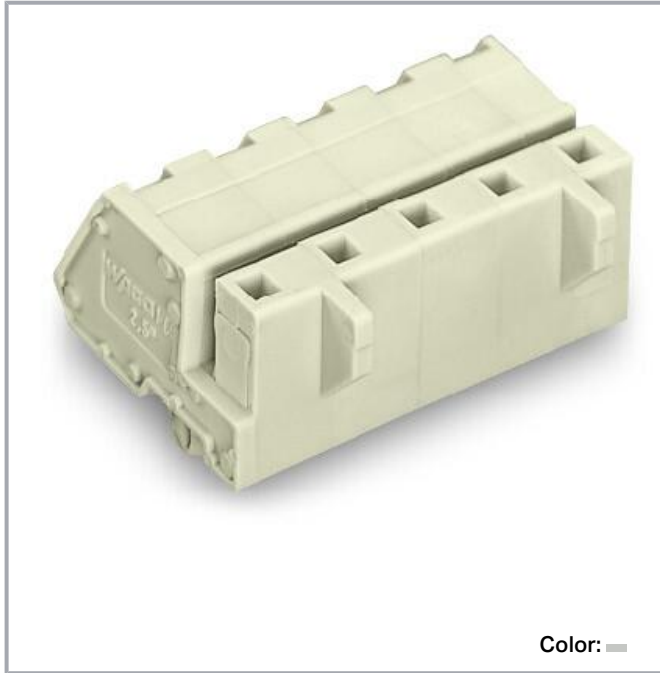


## Data sheet | Item number: 721-335/008-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 5-pole; 100% protected against mismating; Snap-in mounting feet; 2,50 mm²; light gray

[www.wago.com/721-335/008-000](http://www.wago.com/721-335/008-000)

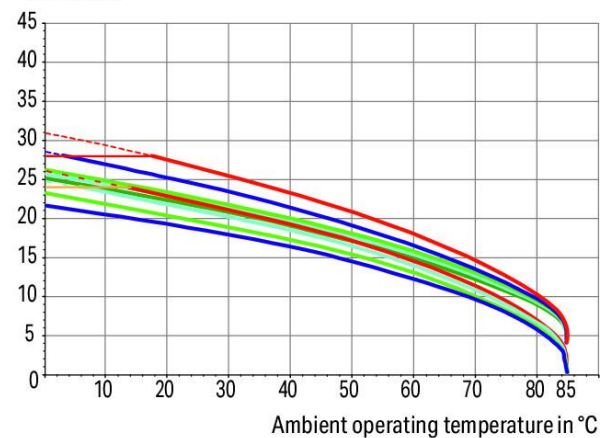


Color:

### Derating Curve

1-conductor female connector (721-332/031-000) with  
THT male header (721-232/001-000)  
Pin spacing: 7.5 mm / Conductor cross-section: 2.5 mm² "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



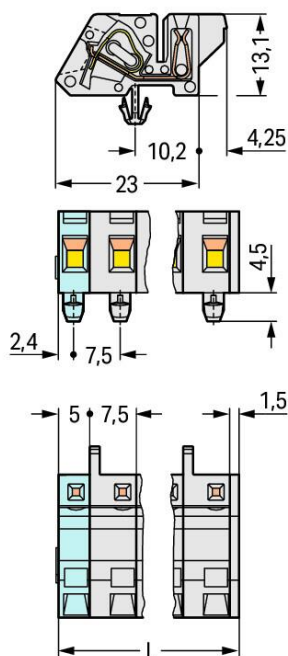
2-, 4-, 6-, 12- pole

Conductor rated current

Subject to changes. Please also observe the further product documentation!

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Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}$

## Item description

- Universal connection for all conductor types
- Available with snap-in mounting feet or flanges for panel or through-panel mounting
- Mounting adapter allows versions with snap-in mounting feet to be DIN-35 rail mounted
- Easy conductor termination, even when halves are mated
- 100% protected against mismating

## Data

### Notes

#### Safety information

The *MCS – MULTI CONNECTION SYSTEM* includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

#### Variants:

Other pole numbers  
Gold-plated or partially gold-plated contact surfaces

Subject to changes. Please also observe the further product documentation!

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Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

### Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                                    |
|-------------------------------|-------------------------------------------------------------------|
| Nominal voltage (III/3)       | 500 V                                                             |
| Rated impulse voltage (III/3) | 6 kV                                                              |
| Rated voltage (III/2)         | 630 V                                                             |
| Rated impulse voltage (III/2) | 6 kV                                                              |
| Nominal voltage (II/2)        | 1000 V                                                            |
| Rated surge voltage (II/2)    | 6 kV                                                              |
| Rated current                 | 12 A                                                              |
| Legend (ratings)              | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Ratings per UL

| Approvals per                  | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 15 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

### Ratings per UL 1977

|                         |       |
|-------------------------|-------|
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977   | 15 A  |

### Ratings per CSA

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

## Connection data

|                   |   |
|-------------------|---|
| Connection points | 5 |
|-------------------|---|

Subject to changes. Please also observe the further product documentation!



|                            |   |
|----------------------------|---|
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| Connection technology                             | CAGE CLAMP®                           |
| Actuation type                                    | Operating tool                        |
| Actuation direction 1                             | Operation parallel to conductor entry |
| Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 12 AWG      |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG      |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                      |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                      |
| Strip length                                      | 7 ... 8 mm / 0.28 ... 0.31 inches     |
| Pole number                                       | 5                                     |
| Conductor entry direction to mating direction     | 90 °                                  |

## Physical data

|                         |                         |
|-------------------------|-------------------------|
| Pin spacing             | 7.5 mm / 0.295 inches   |
| Width                   | 36.5 mm / 1.437 inches  |
| Height                  | 17.6 mm / 0.693 inches  |
| Height from the surface | 13.1 mm / 0.516 inches  |
| Depth                   | 27.25 mm / 1.073 inches |

## Mechanical Data

|                          |                                         |
|--------------------------|-----------------------------------------|
| Variable coding          | No                                      |
| Housing sheet thickness  | 0.6 ... 1.2 mm / 0.024 ... 0.047 inches |
| Design                   | angled; mountable                       |
| Mounting type            | Snap-in foot                            |
| Mounting type            | Feed-through mounting<br>Panel mounting |
| Anti-rotation protection | Yes                                     |

## Plug-in connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismating protection               | Yes                     |

Subject to changes. Please also observe the further product documentation!



|                                      |      |
|--------------------------------------|------|
| Plugging without loss of pin spacing | No   |
| Locking of plug-in connection        | none |

## Material data

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | light gray                                               |
| Material group              | I                                                        |
| Insulation material         | Polyamide (PA66)                                         |
| Flammability class per UL94 | V0                                                       |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                        |
| Contact material            | Copper alloy                                             |
| Contact plating             | Tin                                                      |
| Fire load                   | 0.1 MJ                                                   |
| Weight                      | 8.8 g                                                    |

## Environmental requirements

|                         |                |
|-------------------------|----------------|
| Limit temperature range | -60 ... +85 °C |
| Processing temperature  | -35 ... +60 °C |

## Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| eCl@ss 10.0           | 27-44-03-09            |
| eCl@ss 9.0            | 27-44-03-09            |
| ETIM 8.0              | EC002638               |
| ETIM 7.0              | EC002638               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918576062          |
| Customs tariff number | 85366990990            |

## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Subject to changes. Please also observe the further product documentation!

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## Approvals / Certificates

### General approvals

| Logo                                                                              | Approval                                     | Additional Approval Text | Certificate name |
|-----------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                   | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-39756 /A1     |
|   | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 1466354          |
|   | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-121453        |
|   | <b>UR</b><br>Underwriters Laboratories Inc.  | UL 1059                  | E45172           |
|  | <b>UR</b><br>Underwriters Laboratories Inc.  | UL 1977                  | E 45171          |

### Approvals for marine applications

| Logo                                                                                | Approval                                  | Additional Approval Text | Certificate name |
|-------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|------------------|
|   | <b>ABS</b><br>American Bureau of Shipping | -                        | 19-HG1869876-PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.          | IEC 60998                | 11915/DO BV      |
|   | <b>DNV</b><br>DNV GL SE                   | -                        | TAE000016Z       |

Subject to changes. Please also observe the further product documentation!

## Counterpart


**Item no. 723-605**

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 5-pole; 100% protected against mismatching; 2,50 mm²; light gray

[www.wago.com/723-605](http://www.wago.com/723-605)


**Item no. 721-235/001-000**

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 7.5 mm; 5-pole; light gray

[www.wago.com/721-235/001-000](http://www.wago.com/721-235/001-000)

## Optional accessories

### Mounting

#### Mounting accessories


**Item no.: 209-120**

Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray

[www.wago.com/209-120](http://www.wago.com/209-120)

### Tool

#### Operating tool


**Item no.: 231-159**

Operating tool; natural

[www.wago.com/231-159](http://www.wago.com/231-159)


**Item no.: 231-231**

Combination operating tool; red

[www.wago.com/231-231](http://www.wago.com/231-231)


**Item no.: 231-131**

Operating tool; made of insulating material; 1-way; loose; white

[www.wago.com/231-131](http://www.wago.com/231-131)


**Item no.: 231-291**

Operating tool; made of insulating material; 1-way; loose; red

[www.wago.com/231-291](http://www.wago.com/231-291)

### Ferrule

#### Ferrule


**Item no.: 216-106**

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-106](http://www.wago.com/216-106)


**Item no.: 216-123**

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-123](http://www.wago.com/216-123)


**Item no.: 216-122**

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

[www.wago.com/216-122](http://www.wago.com/216-122)


**Item no.: 216-124**

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

[www.wago.com/216-124](http://www.wago.com/216-124)

Subject to changes. Please also observe the further product documentation!

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|                                                                                   |                                                                                                                                                                                                       |                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                | <a href="http://www.wago.com/216-142">www.wago.com/216-142</a> |
|    | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-132">www.wago.com/216-132</a> |
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored                                                                         | <a href="http://www.wago.com/216-121">www.wago.com/216-121</a> |
|    | <b>Item no.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                   | <a href="http://www.wago.com/216-143">www.wago.com/216-143</a> |
|    | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored                                                                        | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|    | <b>Item no.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                 | <a href="http://www.wago.com/216-141">www.wago.com/216-141</a> |
|    | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|    | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                                        | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|    | <b>Item no.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <a href="http://www.wago.com/216-144">www.wago.com/216-144</a> |
|  | <b>Item no.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                                        | <a href="http://www.wago.com/216-223">www.wago.com/216-223</a> |
|  | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white            | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray            | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                                    | <a href="http://www.wago.com/216-222">www.wago.com/216-222</a> |
|  | <b>Item no.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                                    | <a href="http://www.wago.com/216-221">www.wago.com/216-221</a> |
|  | <b>Item no.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black                                                                                    | <a href="http://www.wago.com/216-224">www.wago.com/216-224</a> |
|  | <b>Item no.: 216-243</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red                | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|  | <b>Item no.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black            | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a> |

Subject to changes. Please also observe the further product documentation!

|                                                                                 |                                                                                                                                                                                            |                                                                |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 216-263</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a> |
|  | <b>Item no.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-264">www.wago.com/216-264</a> |
|  | <b>Item no.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a> |
|  | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | <a href="http://www.wago.com/216-321">www.wago.com/216-321</a> |
|  | <b>Item no.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise                                                              | <a href="http://www.wago.com/216-322">www.wago.com/216-322</a> |

## Testing and measuring

### Testing accessories



|                                                                       |                                                                |
|-----------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Item no.: 210-136</b><br>Test plug; 2 mm Ø; with 500 mm cable; red | <a href="http://www.wago.com/210-136">www.wago.com/210-136</a> |
|-----------------------------------------------------------------------|----------------------------------------------------------------|



|                                                                                                                                     |                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Item no.: 231-662</b><br>Test plugs for female connectors; for 7.5 mm and 7.62 mm pin spacing; 2,50 mm <sup>2</sup> ; light gray | <a href="http://www.wago.com/231-662">www.wago.com/231-662</a> |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

## Marking accessories

### Marking strip



|                                                                                                                                                                                                    |                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Item no.: 210-331/750-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <a href="http://www.wago.com/210-331/750-202">www.wago.com/210-331/750-202</a> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|



|                                                                                                                                                                                        |                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Item no.: 210-332/750-020</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <a href="http://www.wago.com/210-332/750-020">www.wago.com/210-332/750-020</a> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|

## Downloads

### Documentation

#### Additional Information

|            |               |          |
|------------|---------------|----------|
| 2019 Apr 3 | pdf<br>2.1 MB | Download |
|------------|---------------|----------|

## CAD/CAE-Data

### CAD data

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 721-335/008-000 | URL | Download |
|------------------------------|-----|----------|

Subject to changes. Please also observe the further product documentation!

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CAE data

|                                            |     |          |
|--------------------------------------------|-----|----------|
| EPLAN Data Portal 721-335/008-000          | URL | Download |
| ZUKEN Portal 721-335/008-000               | URL | Download |
| EPLAN Data Portal 721-335/008-000          | URL | Download |
| Asset Administration Shell                 |     |          |
| Asset Administration Shell 721-335/008-000 | URL | Download |

Environmental Product Compliance

Compliance Search

|                                                                                                                                                                         |     |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 721-335/008-000                                                                                                                        | URL | Download |
| 1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 5-pole; 100% protected against mismatching; Snap-in mounting feet; 2,50 mm²; light gray |     |          |

Installation Notes

Application



Multilevel arrangement in a distributed electronic housing

Application

Subject to changes. Please also observe the further product documentation!



Angled female connector –  
a male header with straight solder pins is used  
for horizontal PCB mounting in narrow  
 housings.

## Product family

### MCS MIDI

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!

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