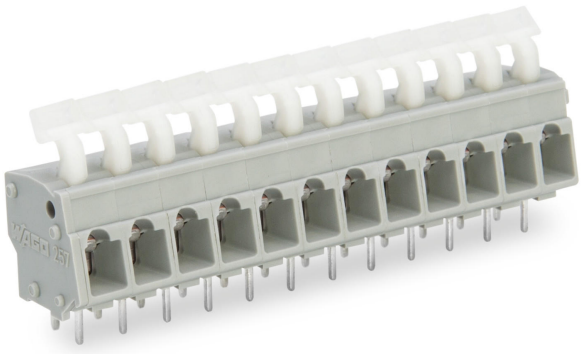
# Data sheet | Item number: 257-453

PCB terminal block; Push-button; 2.5 mm²; Pin spacing 5/5.08 mm; 3-pole; CAGE CLAMP®; commoning option

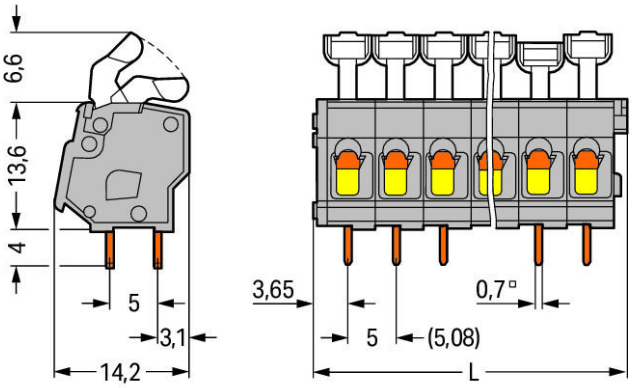
www.wago.com/257-453



RoHS ✓ Compliant

BOMcheck.net

Color:




L = (pole no. x pin spacing) + 2.9 mm

## Item description

- PCB terminal strips with push-buttons and CAGECLAMP® connection
- Versions with Ex approval
- Set to metric or inch pin spacing by compressing PCB terminal strips orpulling them apart
- Ideal for in-the-field wiring thanks to simplified push-button actuation
- Convenient, tool-free operation
- Versions with angled push-buttons for simple top-of-unit actuation

**Other variants can be requested via the WAGO sales department or, if necessary, configured at https://configurator.wago.com/:** Direct marking, Mixed-color terminal strips,Other colors,Other pole numbers,Versions for Ex e II and Ex i

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

| | |
|---|---|
| Rated voltage (III / 3) | 250 V |
| Rated impulse voltage (III / 3) | 4 kV |
| Rated voltage (III / 2) | 320 V |
| Rated impulse voltage (III / 2) | 4 kV |



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| | |
|---|---|
| Rated voltage (II / 2) | 630 V |
| Rated impulse voltage (II / 2) | 4 kV |
| Rated current | 24 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

## 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 |

## 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 technology | CAGE CLAMP® |
| Actuation type | Push-button, angled |
| 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 ferrule with plastic collar | 0.25 … 1.5 mm² |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 … 1.5 mm² |
| Strip length | 5 … 6 mm / 0.2 … 0.24 Inch |
| Conductor entry angle to the PCB | 0 ° |
| No. of poles | 3 |
| Number of levels | 1 |
| Total number of connection points | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |

## Geometrical Data

| | |
|---|---|
| Pin spacing | 5/5.08 mm / 0.197/0.2 inch |
| Width | 17.9 mm / 0.705 inch |
| Height | 24.2 mm / 0.953 inch |
| Height from the surface | 20.2 mm / 0.795 inch |
| Depth | 14.2 mm / 0.559 inch |
| Solder pin length | 4 mm |
| Solder pin dimensions | 0.7 x 0.7 mm |



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| | |
|---|---|
| Drilled hole diameter (tolerance) | $1.1^{(+\,0.1)}$ mm |

## PCB contact

| | |
|---|---|
| PCB contact | THT |
| Solder pin arrangement | over the entire terminal strip, in line |
| Number of solder pins per potential | 2 |

## Material Data

| | |
|---|---|
| Color | gray |
| Material group | I |
| Insulating material | Polyamide 66 (PA 66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (Ecu) |
| Contact plating | tin-plated |
| Fire load | 0.056 MJ |
| Weight | 3.594 g |

## Environmental Requirements

| | |
|---|---|
| Limit temperature range | -60 … +105 °C |

## Commercial data

| | |
|---|---|
| Country of origin | PL |
| GTIN | 4044918676359 |
| Product Group | 4 (Printed Circuit) |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Certificate name |
|---|---|---|
| | **CCA**<br>DEKRA Certification B.V. | 2160584.28 |
| | **CCA**<br>DEKRA Certification B.V. | NTR NL-7128 |
| | **CCA**<br>DEKRA Certification B.V. | 2169331.22 |



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| | | |
|---|---|---|
| | **CCA**<br>DEKRA Certification B.V. | NTR NL-7388 |
| | **CSA**<br>DEKRA Certification B.V. | 70049157 |

### Ship Approvals

| Logo | Approval | Certificate name |
|---|---|---|
| | **DNV GL**<br>Det Norske Veritas, Germanischer Lloyd | TAE000016Z |

### UL-Approvals

| Logo | Approval | Certificate name |
|---|---|---|
| | **UR**<br>Underwriters Laboratories Inc. | E45172, sec. 6 |

## Compatible products

### Marking accessories

| | | |
|---|---|---|
| | **Item no.: 210-332/500-202**<br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/500-202 |
| | **Item no.: 210-332/500-204**<br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/500-204 |
| | **Item no.: 210-332/500-205**<br>Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/500-205 |
| | **Item no.: 210-332/500-206**<br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/500-206 |
| | **Item no.: 210-332/508-202**<br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/508-202 |
| | **Item no.: 210-332/508-204**<br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/508-204 |
| | **Item no.: 210-332/508-205**<br>Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 | |



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| | | |
|---|---|---|
| | mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/508-205 |
| | **Item no.: 210-332/508-206**<br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | www.wago.com/210-332/508-206 |

**check**

| | | |
|---|---|---|
|  | **Item no.: 249-110**<br>Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5 mm / 0.197 in | www.wago.com/249-110 |
|  | **Item no.: 249-111**<br>Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5.08 mm / 0.2 in | www.wago.com/249-111 |

**tools**

| | | |
|---|---|---|
|  | **Item no.: 210-658**<br>Operating tool with partially insulated shaft; Blade (3.5 x 0.5) mm; short; angled | www.wago.com/210-658 |
|  | **Item no.: 210-720**<br>Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | www.wago.com/210-720 |

**ferrule**

| | | |
|---|---|---|
|  | **Item no.: 216-101**<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated | www.wago.com/216-101 |
|  | **Item no.: 216-102**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated | www.wago.com/216-102 |
|  | **Item no.: 216-103**<br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated | www.wago.com/216-103 |
|  | **Item no.: 216-104**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated | www.wago.com/216-104 |
|  | **Item no.: 216-121**<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated | www.wago.com/216-121 |
|  | **Item no.: 216-122**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated | www.wago.com/216-122 |
|  | **Item no.: 216-123**<br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated | www.wago.com/216-123 |
|  | **Item no.: 216-124**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated | www.wago.com/216-124 |
|  | **Item no.: 216-131**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-131 |
|  | **Item no.: 216-132**<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-132 |
| | **Item no.: 216-141** | |



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| | | |
|---|---|---|
|  | Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-141 |
|  | **Item no.: 216-142**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-142 |
|  | **Item no.: 216-143**<br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-143 |
|  | **Item no.: 216-144**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | www.wago.com/216-144 |
|  | **Item no.: 216-151**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-151 |
|  | **Item no.: 216-152**<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-152 |
|  | **Item no.: 216-201**<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated | www.wago.com/216-201 |
|  | **Item no.: 216-202**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated | www.wago.com/216-202 |
|  | **Item no.: 216-203**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated | www.wago.com/216-203 |
|  | **Item no.: 216-204**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated | www.wago.com/216-204 |
|  | **Item no.: 216-221**<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated | www.wago.com/216-221 |
|  | **Item no.: 216-222**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated | www.wago.com/216-222 |
|  | **Item no.: 216-223**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated | www.wago.com/216-223 |
|  | **Item no.: 216-224**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated | www.wago.com/216-224 |
|  | **Item no.: 216-241**<br>Ferrule; Sleeve for 0.5 mm² / AWG 22; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-241 |
|  | **Item no.: 216-242**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-242 |
|  | **Item no.: 216-243**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-243 |
|  | **Item no.: 216-244**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-244 |
|  | **Item no.: 216-262**<br>Ferrule; Sleeve for 0.75 mm² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-262 |



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| | | |
|---|---|---|
|  | **Item no.: 216-263**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-263 |
|  | **Item no.: 216-264**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-264 |
|  | **Item no.: 216-284**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | www.wago.com/216-284 |
|  | **Item no.: 216-301**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated | www.wago.com/216-301 |
|  | **Item no.: 216-302**<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; insulated; electro-tin plated | www.wago.com/216-302 |
|  | **Item no.: 216-321**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated | www.wago.com/216-321 |
|  | **Item no.: 216-322**<br>Ferrule; Sleeve for 0.34 mm² / AWG 24; insulated; electro-tin plated | www.wago.com/216-322 |

## Downloads

### CAD files

#### CAD data

| | | | |
|---|---|---|---|
| 3D Download 257-453 | | URL | Download |

#### PCB libraries

| | | | |
|---|---|---|---|
| TARGET Library for WAGO PCB Terminal Blocks<br>Compatible with TARGET PCB Design Software Version 17.x | 1.1.0<br>Oct 6, 2014 | ZIP<br>27.1 MB | Download |
| DesignSpark Library for WAGO PCB Terminal Blocks<br>Compatible with DesignSpark PCB Version 4.x or higher | 2.1<br>Oct 6, 2014 | ZIP<br>22.5 MB | Download |
| EAGLE Library for WAGO PCB Terminal Blocks<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Nov 17, 2017 | ZIP<br>23.9 MB | Download |

Subject to changes.

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