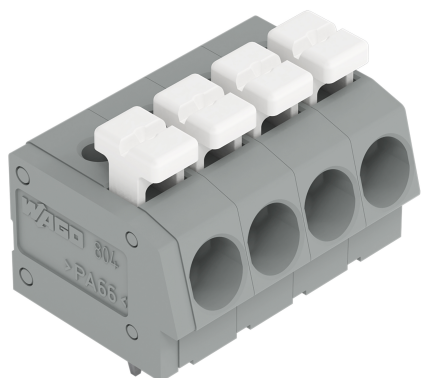


## Data Sheet | Item Number: 804-113

PCB terminal block; push-button; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 13-pole; Push-in CAGE CLAMP®; gray

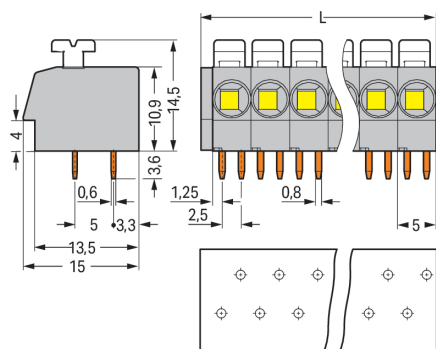
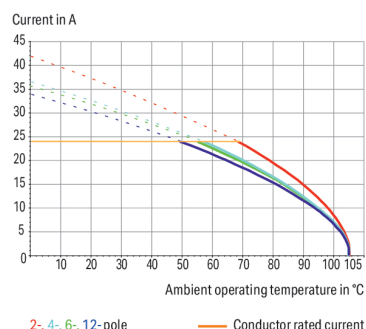
<https://www.wago.com/804-113>



Color: ■ gray

Similar to illustration

Current-Carrying Capacity Curve  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm

PCB terminal block, 804 Series, push-button

Quick and easy connections are guaranteed with this PCB terminal block (item number 804-113). It is ideal for custom installations with different mounting types. Strip lengths must be between 10 and 11 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The item's dimensions are (66.5 x 18.1 x 15) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.25 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. Insert the conductor at a 0° angle..



| Notes     |                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole numbers<br>Other colors<br>Mixed-color PCB connector strips<br>10 mm pin spacing version with spacers<br>Direct marking<br>Versions for Ex i<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |

| Electrical data                 |       |                |       |       |
|---------------------------------|-------|----------------|-------|-------|
| Ratings per                     |       | IEC/EN 60664-1 |       |       |
| Overvoltage category            | III   | III            | II    |       |
| Pollution degree                | 3     | 2              | 2     |       |
| Nominal voltage                 | 250 V | 320 V          | 630 V |       |
| Rated impulse withstand voltage | 4 kV  | 4 kV           | 4 kV  |       |
| Rated current                   | 24 A  | 24 A           | 24 A  |       |
| Approvals per                   |       | UL 1059        |       |       |
| Use group                       |       | B              | C     | D     |
| Rated voltage                   |       | 300 V          | -     | 300 V |
| Rated current                   |       | 10 A           | -     | 10 A  |
| Approvals per                   |       | CSA            |       |       |
| Use group                       |       | B              | C     | D     |
| Rated voltage                   |       | 300 V          | -     | 300 V |
| Rated current                   |       | 10 A           | -     | 10 A  |

| Connection Data                                   |                                     |  |
|---------------------------------------------------|-------------------------------------|--|
| Clamping units                                    | 13                                  |  |
| Total number of potentials                        | 13                                  |  |
| Number of connection types                        | 1                                   |  |
| Number of levels                                  | 1                                   |  |
| Connection 1                                      |                                     |  |
| Connection technology                             | Push-in CAGE CLAMP®                 |  |
| Actuation type                                    | Push-button                         |  |
| Solid conductor                                   | 0.25 ... 2.5 mm² / 20 ... 12 AWG    |  |
| Fine-stranded conductor                           | 0.25 ... 2.5 mm² / 22 ... 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                                      | 10 ... 11 mm / 0.39 ... 0.43 inches |  |
| Conductor connection direction to PCB             | 0°                                  |  |
| Pole number                                       | 13                                  |  |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 5 mm / 0.197 inches    |
| Width                   | 66.5 mm / 2.618 inches |
| Height                  | 18.1 mm / 0.713 inches |
| Height from the surface | 14.5 mm / 0.571 inches |
| Depth                   | 15 mm / 0.591 inches   |
| Solder pin length       | 3.6 mm                 |
| Solder pin dimensions   | 0.8 x 0.6 mm           |
| !                       | 1.1 (+0.1) mm          |



| PCB contact                         |                                            |
|-------------------------------------|--------------------------------------------|
| PCB contact                         | THT                                        |
| Solder pin arrangement              | over the entire terminal strip (staggered) |
| Number of solder pins per potential | 2                                          |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | gray                                                                     |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Electrolytic copper (E <sub>cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.294 MJ                                                                 |
| Weight                             | 13 g                                                                     |

| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +105 °C |

| Commercial data       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 60 (15) pcs                    |
| Packaging type        | Box                            |
| Country of origin     | CH                             |
| GTIN                  | 4044918515276                  |
| Customs tariff number | 85369010000                    |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-44-04-01          |
| eCl@ss 9.0             | 27-44-04-01          |
| ETIM 9.0               | EC002643             |
| ETIM 10.0              | EC002643             |
| ECCN                   | NO US CLASSIFICATION |

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

| Approvals / Certificates                 |              |                  |
|------------------------------------------|--------------|------------------|
| General approvals                        |              |                  |
|                                          |              |                  |
| Approval                                 | Standard     | Certificate Name |
| CCA<br>DEKRA Certification B.V.          | EN 60947-7-4 | NTR NL 7781      |
| CCA<br>DEKRA Certification B.V.          | EN 60947-7-4 | 71-110710        |
| General approvals                        |              |                  |
| ENEC 15<br>UL International Germany GmbH | EN 60998     | ENEC-00096       |
| UL<br>UL International Germany GmbH      | UL 1977      | E45171           |
| UL<br>UL International Germany GmbH      | UL 1059      | E45172           |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 804-113 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |
| 03.04.2019             |
| pdf<br>2027.26 KB      |



CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 804-113 |



| CAE data                     |
|------------------------------|
| EPLAN Data Portal<br>804-113 |
| ZUKEN Portal 804-113         |



| PCB Design                                             |
|--------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys 804-113           |
| Symbol and Footprint<br>via Ultra Librarian<br>804-113 |





1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       |                                                                                                       |                                                                                                       |                                                                                                                 |
| <p><b>Item No.: 216-241</b><br/>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</p> | <p><b>Item No.: 216-141</b><br/>Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>     | <p><b>Item No.: 216-242</b><br/>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p> | <p><b>Item No.: 216-262</b><br/>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>             |
|                                                                                                       |                                                                                                       |                                                                                                       |                                                                                                                 |
| <p><b>Item No.: 216-142</b><br/>Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>    | <p><b>Item No.: 216-243</b><br/>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>     | <p><b>Item No.: 216-263</b><br/>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>     | <p><b>Item No.: 216-143</b><br/>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>                   |
|                                                                                                       |                                                                                                       |                                                                                                       |                                                                                                                 |
| <p><b>Item No.: 216-244</b><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; black</p> | <p><b>Item No.: 216-264</b><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; black</p> | <p><b>Item No.: 216-284</b><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; black</p> | <p><b>Item No.: 216-144</b><br/>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored</p> |
|                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                                    |
| <p><b>Item No.: 216-106</b><br/>Ferrule; Sleeve for 2.5 mm² / AWG 14; un-insulated; electro-tin plated; silver-colored</p>                                                             |                                                                                                                                                                                        |                                                                                                                                                                                        |                                                                                                                                                                                                    |

1.1.2 Marking

1.1.2.1 Marking strip

|                                                                                                                                                                                                 |                                                                                                                                                                                                |                                                                                                                                                                                                  |                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              |                                                                                                             |                                                                                                              |                                                                                                             |
| <p><b>Item No.: 210-332/500-202</b><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; white</p> | <p><b>Item No.: 210-332/500-205</b><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; white</p> | <p><b>Item No.: 210-332/500-204</b><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; white</p> | <p><b>Item No.: 210-332/500-206</b><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; white</p> |

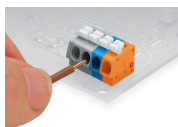
1.1.3 Tool

1.1.3.1 Operating tool

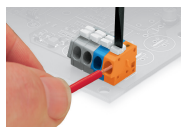
|                                                                                                                          |                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                                       |                                              |
| <p><b>Item No.: 210-720</b><br/>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured</p> | <p><b>Item No.: 210-657</b><br/>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured</p> |

## Installation Notes

### Conductor termination



Terminating solid conductors: Simply push in stripped conductor until it hits the backstop.



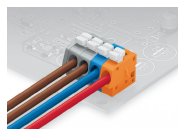
Inserting/removing fine-stranded conductors:  
Open the clamping unit via push-button and insert a stripped conductor until it hits the backstop.

## Application



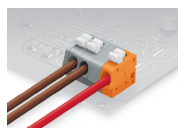
WAGO's 804 Series Terminal Strips provide "internal commoning" to meet requirements than ban routing the ground conductor over the board. This enables custom terminal strips to be commoned and marked at the factory upon request.

## Installation



Mixed-color terminal strips are available upon request.

## Installation



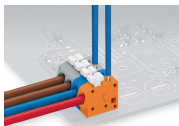
Terminal strips with spacer are available upon request.

## Marking



Labeling via self-adhesive marking strips or factory direct marking.

## Testing



Testing via 1 mm Ø test pin.  
Touch contact with current bar.