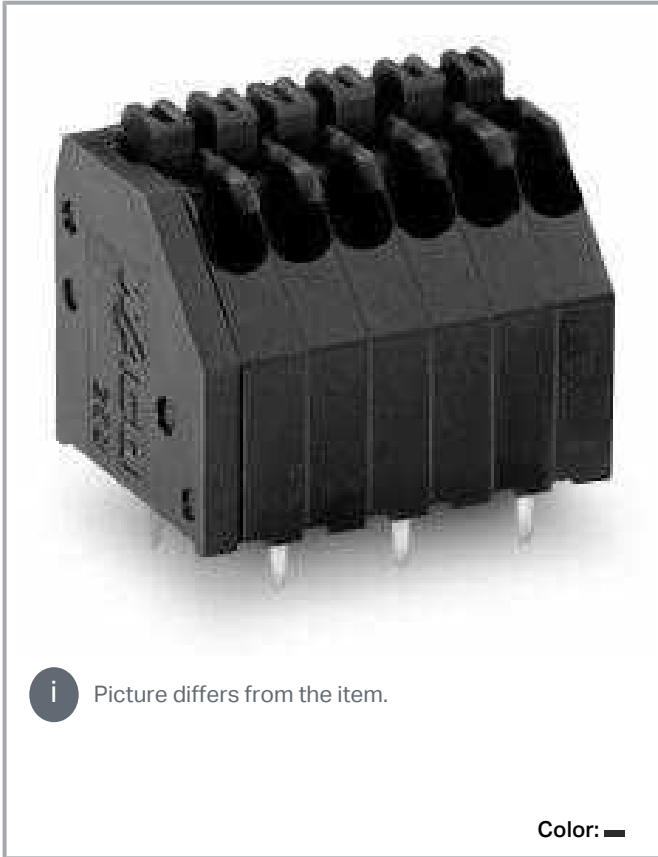


**Data sheet | Item number: 250-402/350-604**

THR PCB terminal block; push-button; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 2-pole;  
Push-in CAGE CLAMP®; 0,50 mm<sup>2</sup>; black



[www.wago.com/250-402\\_350-604](http://www.wago.com/250-402_350-604)



**i** Picture differs from the item.

Color: 



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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- Cost-effective integration of high-temperature resistant THR terminal strips into SMT reflow soldering processes
- Push-in termination of solid and ferruled conductors
- Termination/removal of fine-stranded conductors via push-buttons
- 45° conductor entry angle provides easy, space-saving wiring

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

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## Data

### Notes

Variants:

Other pole numbers

Direct marking

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

## Electrical data

### IEC Approvals

|                             |   |
|-----------------------------|---|
| Ratings per                 | IEC/EN 60664-1  |
| Rated voltage (III / 3)     | 160 V   |
| Rated surge voltage (III/3) | 2.5 kV  |
| Rated voltage (III/2)       | 160 V   |
| Rated surge voltage (III/2) | 2.5 kV  |
| Nominal voltage (II/2)      | 250 V   |
| Rated surge voltage (II/2)  | 2.5 kV  |
| Rated current               | 4 A   |
| Legend (ratings)            | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### UL Approvals

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 5 A     |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 5 A     |

### CSA Approvals

|                                 |       |
|---------------------------------|-------|
| Approvals per                   | CSA   |
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 5 A   |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 5 A   |

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

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## Connection data

|                                   |   |
|-----------------------------------|---|
| Total number of connection points | 2 |
| Total number of potentials        | 2 |
| Number of connection types        | 1 |
| Number of levels                  | 1 |

## Connection 1

|                                       |  |
|---------------------------------------|--|
| Connection technology                 | Push-in CAGE CLAMP®                          |
| Actuation type                        | Push-button                                  |
| Solid conductor                       | 0.14 ... 0.5 mm <sup>2</sup> / 24 ... 20 AWG |
| Fine-stranded conductor               | 0.2 ... 0.5 mm <sup>2</sup> / 24 ... 20 AWG  |
| Conductor diameter                    | 0.4 ... 0.8 mm / 24 ... 20 AWG               |
| Strip length                          | 8.5 ... 9.5 mm / 0.33 ... 0.37 inch          |
| Conductor connection direction to PCB | 45°  |
| Number of poles                       | 2  |

## Physical data

|                                    |                        |
|------------------------------------|------------------------|
| Pin spacing                        | 2.5 mm / 0.098 inch    |
| Width                              | 6.5 mm / 0.256 inch    |
| Height                             | 16.7 mm / 0.657 inch   |
| Height from the surface            | 13.1 mm / 0.516 inch   |
| Depth                              | 12 mm / 0.472 inch     |
| Solder pin length                  | 3.6 mm                 |
| Solder pin dimensions              | 0.4 x 0.75 mm          |
| Plated through-hole diameter (THR) | 1 <sup>(+0.1)</sup> mm |

## PCB contact

|                                     |  |
|-------------------------------------|--|
| PCB Contact                         | THR  |
| Solder pin arrangement              | over the entire terminal strip (staggered) |
| Number of solder pins per potential | 1  |

## Material data

|                |       |
|----------------|-------|
| Color          | black |
| Material group | IIIa  |

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

|                             |  |
|-----------------------------|--|
| Insulation material         | Polyamide (PA46)                       |
| Flammability class per UL94 | V2                                     |
| Clamping spring material    | Copper alloy                           |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.022 MJ                               |
| Weight                      | 0.9 g                                  |

## Environmental requirements


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

## Commercial data


|                       |                     |
|-----------------------|---------------------|
| Product Group         | 4 (Printed Circuit) |
| PU (SPU)              | 720 (180) Stück     |
| Packaging type        | box                 |
| Country of origin     | CH                  |
| GTIN                  | 4044918642804       |
| Customs tariff number | 8536904000          |

## Approvals / Certificates

### Country specific Approvals

| Logo   | Approval                        | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CSA<br>DEKRA Certification B.V. | C22.2                    | 1132097          |

### UL-Approvals

| Logo   | Approval                            | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Germany GmbH | UL 1059                  | E45172           |

## Optional accessories

### Testing accessories

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

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Testing accessories

|  |  |  |
|--|--|--|
|  | <b>Item no.: 735-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |
|--|--|--|



Marking accessories

Marking strip

|  |   |  |
|--|---|--|
|  | <b>Item no.: 210-331/250-207</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-48 (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/210-331/250-207">www.wago.com/210-331/250-207</a> |
|  | <b>Item no.: 210-331/250-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); 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/210-331/250-202">www.wago.com/210-331/250-202</a> |
|  | <b>Item no.: 210-331/250-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); 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/210-331/250-204">www.wago.com/210-331/250-204</a> |
|  | <b>Item no.: 210-331/250-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); 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/210-331/250-206">www.wago.com/210-331/250-206</a> |

Tools

Operating tool

|  |  |  |
|--|--|--|
|    | <b>Item no.: 210-647</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured | <a href="http://www.wago.com/210-647">www.wago.com/210-647</a> |
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft                | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |

Downloads

Documentation

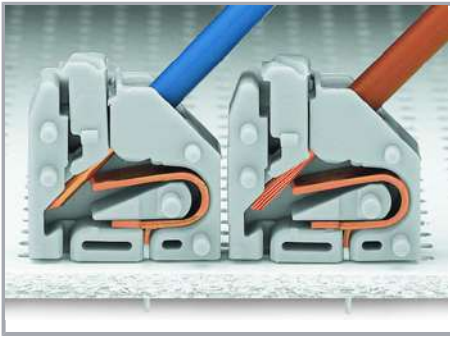
Additional Information

|                        |            |                 |          |
|------------------------|------------|-----------------|----------|
| Technical explanations | 2019 Apr 3 | pdf<br>2.0 MB   | Download |
| THR Soldering Process  |            | pdf<br>548.2 kB | Download |

Installation Notes

Conductor termination

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



Inserting solid conductors via push-in termination.

Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

#### Conductor termination



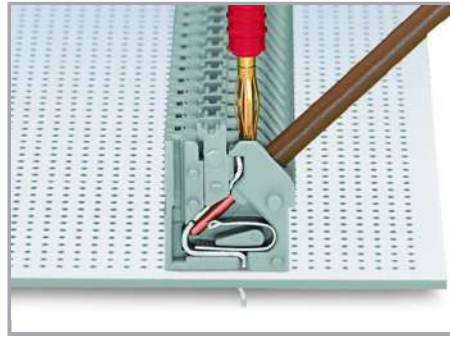
Space-saving wiring, 250 Series – 5 mm pin spacing.

#### Testing

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

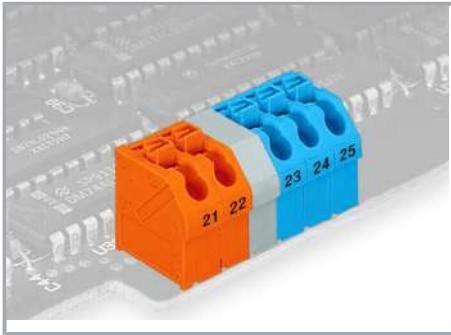


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

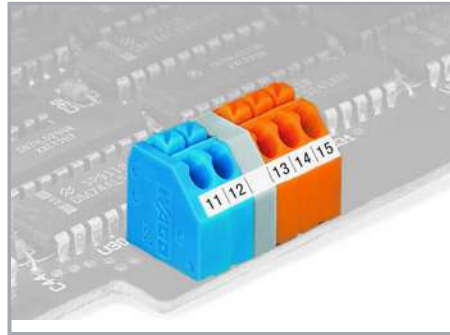


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

### Marking



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.

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