

# Modular Empty Housing, 2857 Series

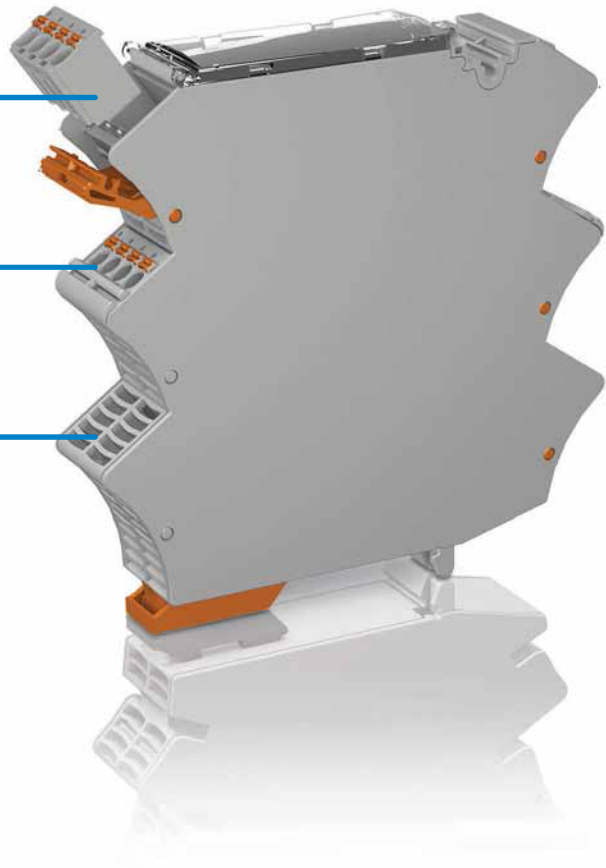
Overview and Configuration

Pluggable connection with *picoMAX*<sup>®</sup>

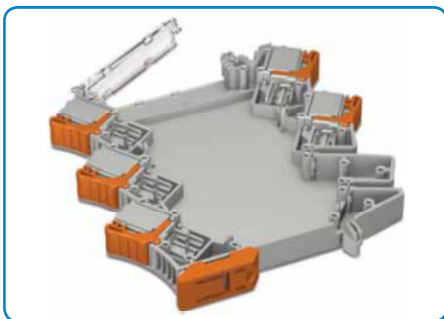
Fixed connection with *picoMAX*<sup>®</sup>

Empty slot without connection technology

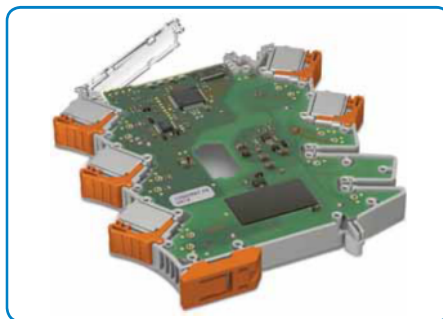
... freely selectable at each connection point



## Supplied as a pre-assembled unit



1. Pre-assembled unit



2. Inserting and soldering the PCB.



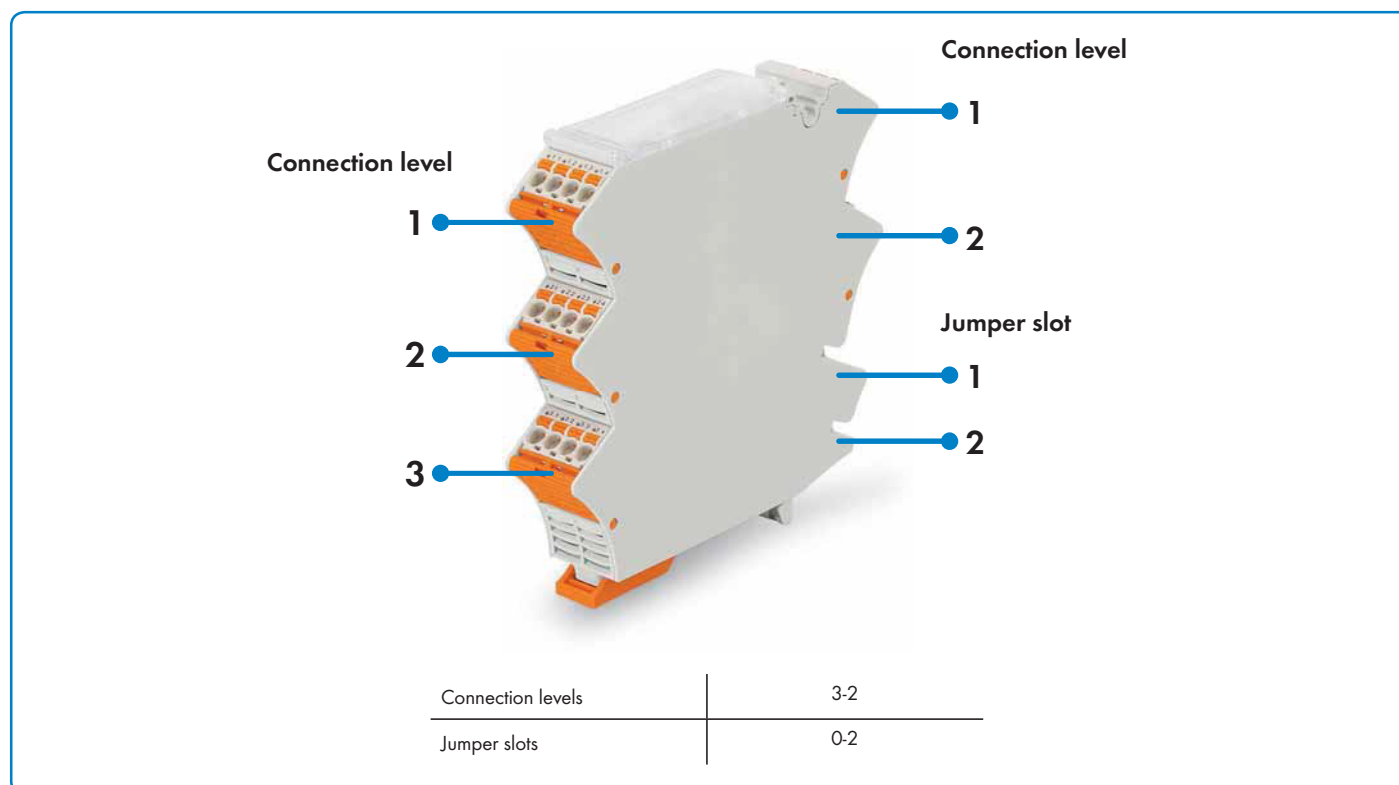
3. Snapping on side wall.

## Housing configuration

|                           |  |  |   |  |
|---------------------------|--|--|---|--|
| Housing width:<br>12.5 mm | <br><b>2857-101</b> | <br><b>2857-102</b> | <br><b>2857-103</b> | -  |
| Housing width:<br>22.5 mm | <br><b>2857-121</b> | <br><b>2857-122</b> | <br><b>2857-123</b> | <br><b>2857-124</b> |
| Connection levels         | 2-2  | 3-2  | 3-3   | 1-1  |
| Jumper slots              | 2-2  | 0-2  | 0-0   | 2-2  |

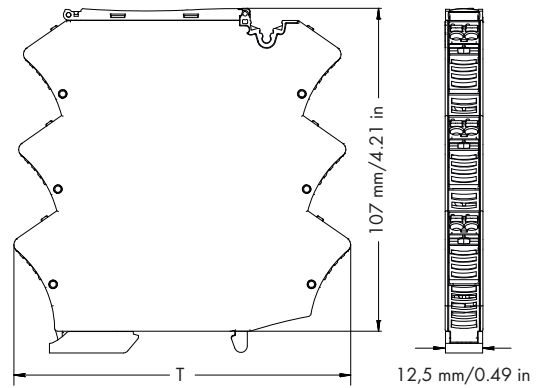
Mixed configuration (fixed/removable/empty slot) upon request.

### Example of connection level and jumper slot assignment:



# Modular Empty Housing

Housing width: 12.5 mm



**Features:**

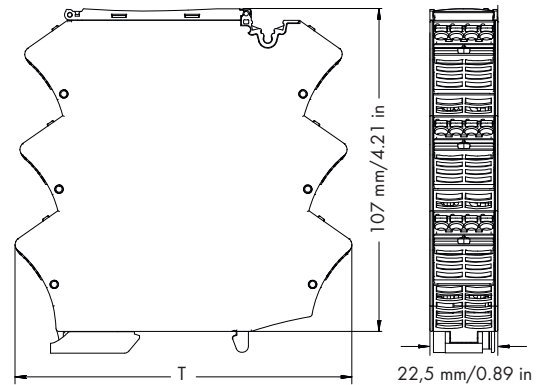
- picoMAX® female connectors, with coding keys, 2-pole
- Pre-assembled unit
- Flexible conductor termination
- Customization of connection levels
- Various marking options available
- Sealable, transparent cover
- Commoning option via 859-402 jumpers

| Technical Data: Empty Housing      |                                       |
|------------------------------------|---------------------------------------|
| <b>Material Data:</b>              |                                       |
| Housing material                   | PC                                    |
| Flammability rating                | V0                                    |
| <b>Environmental Requirements:</b> |                                       |
| Ambient operating temperature      | -40 °C ... +70 °C                     |
| Storage temperature                | -40 °C ... +85 °C                     |
| <b>Dimensions:</b>                 |                                       |
| Dimensions (mm) W x H x L          | 12.5 x 107 x 108 (2857-101)           |
|                                    | 12.5 x 107 x 110 (2857-102)           |
|                                    | 12.5 x 107 x 112 (2857-103)           |
|                                    | Height from upper-edge of DIN 35 rail |
| <b>Technical Data:</b>             |                                       |
| Power loss                         | 2 W                                   |
| Accessories                        | Coding key carrier: 2092-1610         |
|                                    | Jumpers: 859-402                      |
|                                    | Marker strips, WMB and                |
|                                    | WMB Inline: see Full Line Catalog     |
|                                    | INTERFACE ELECTRONIC 2012/2013,       |
|                                    | pages 402 and 408                     |

| Description   | Item No.                                    | Pack. Unit |
|---|---|------------|
| <b>Modular Empty Housing, for DIN 35 rail</b>                                   |   |            |
| <b>Housing width: 12.5 mm</b>   |   |            |
| 2-2 connection levels, 2-2 jumper slots   | <b>2857-101</b>                             | 10         |
| 3-2 connection levels, 0-2 jumper slots   | <b>2857-102</b>                             | 10         |
| 3-3 connection levels, 0-0 jumper slots   | <b>2857-103</b>                             | 10         |
| <b>Technical Data: Female Connector with picoMAX® 5.0 Conductor Termination</b> |   |            |
| <b>Technical Data:</b>  |   |            |
| Pin spacing   | 5 mm / 0.197 in                             |            |
| Ratings per   | IEC/EN 60664-1                              |            |
| Overtoltage category EN   | III   | II         |
| Pollution degree  | 3   | 2          |
| Rated voltage EN  | 250 V                                       | 320 V      |
| Rated surge voltage   | 4 kV  | 4 kV       |
| Nominal current   | 16 A  | 16 A       |
| Approvals per   | UL/CSA                                      |            |
| Use group UL 1059   | B   | C          |
| Rated voltage   | 300 V                                       | 300 V      |
| Nominal current UL  | 15 A  | 10 A       |
| <b>Conductor Data:</b>  |   |            |
| Wire connection   | CAGE CLAMP® S                               |            |
| Solid sizes   | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 12 |            |
| Fine-stranded wires   | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 12 |            |
| Fine-stranded wires with insulated ferrule                                      | 0.2 ... 1.5 mm <sup>2</sup> / AWG 24 ... 16 |            |
| Fine-stranded wires with uninsulated ferrule                                    | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 14 |            |
| Strip length  | 9 ... 10 mm / 0.35 ... 0.39 in              |            |
| <b>Material Data:</b>   |   |            |
| Clamping spring material  | Chrome nickel spring steel (CrNi)           |            |
| Contact material  | Electrolytic copper (Ecu)                   |            |
| Contact plating   | Tin-plated                                  |            |
| Insulating material   | Polyphthalamide glass fiber (PPA-GF)        |            |
| Flammability rating   | V0  |            |
| For additional technical data, see WAGO's picoMAX® catalog.                     |   |            |

# Modular Empty Housing

Housing width: 22.5 mm



**Features:**

- picoMAX® female connectors, with coding keys, 4-pole
- Pre-assembled unit
- Flexible conductor termination
- Customization of connection levels
- Various marking options available
- Sealable, transparent cover
- Commoning option via 859-402 jumpers

**Technical Data: Empty Housing**

**Material Data:**

|                     |    |
|---------------------|----|
| Housing material    | PC |
| Flammability rating | V0 |

**Environmental Requirements:**

|                               |                   |
|-------------------------------|-------------------|
| Ambient operating temperature | -40 °C ... +70 °C |
| Storage temperature           | -40 °C ... +85 °C |

**Dimensions:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Dimensions (mm) W x H x L | 22.5 x 107 x 108 (2857-121)           |
|                           | 22.5 x 107 x 110 (2857-122)           |
|                           | 22.5 x 107 x 112 (2857-123)           |
|                           | 22.5 x 107 x 105 (2857-124)           |
|                           | Height from upper-edge of DIN 35 rail |

**Technical Data:**

|             |                                   |
|-------------|-----------------------------------|
| Power loss  | 3 W                               |
| Accessories | Coding key carrier: 2092-1610     |
|             | Jumpers: 859-402                  |
|             | Marker strips, WMB and            |
|             | WMB Inline: see Full Line Catalog |
|             | INTERFACE ELECTRONIC 2012/2013,   |
|             | pages 402 and 408                 |

| Description                                   | Item No.        | Pack. Unit |
|---|-----------------|------------|
| <b>Modular Empty Housing, for DIN 35 rail</b> |                 |            |
| <b>Housing width: 22.5 mm</b>                 |                 |            |
| 2-2 connection levels, 2-2 jumper slots       | <b>2857-121</b> | 5          |
| 3-2 connection levels, 0-2 jumper slots       | <b>2857-122</b> | 5          |
| 3-3 connection levels, 0-0 jumper slots       | <b>2857-123</b> | 5          |
| 1-1 connection levels, 2-2 jumper slots       | <b>2857-124</b> | 5          |

**Technical Data: Female Connector with picoMAX® 5.0 Conductor Termination**

**Technical Data:**

|                         |                 |      |       |
|-------------------------|-----------------|------|-------|
| Pin spacing             | 5 mm / 0.197 in |      |       |
| Ratings per             | IEC/EN 60664-1  |      |       |
| Overvoltage category EN | III             | III  | II    |
| Pollution degree        | 3               | 2    | 2     |
| Rated voltage EN        | 250 V           | 320  | 630 V |
| Rated surge voltage     | 4 kV /          | 4 kV | 4 kV  |
| Nominal current         | 16 A            | 16 A | 16 A  |
| Approvals per           | UL/CSA          |      |       |
| Use group UL 1059       | B               | C    | D     |
| Rated voltage           | 300 V           | -    | 300 V |
| Nominal current UL      | 15 A            | -    | 10 A  |

**Conductor Data:**

|  |   |
|--|---|
| Wire connection                              | CAGE CLAMP® S                               |
| Solid sizes                                  | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 12 |
| Fine-stranded wires                          | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 12 |
| Fine-stranded wires with insulated ferrule   | 0.2 ... 1.5 mm <sup>2</sup> / AWG 24 ... 16 |
| Fine-stranded wires with uninsulated ferrule | 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 14 |
| Strip length                                 | 9 ... 10 mm / 0.35 ... 0.39 in              |

**Material Data:**

|                          |                                      |
|--------------------------|--------------------------------------|
| Clamping spring material | Chrome nickel spring steel (CrNi)    |
| Contact material         | Electrolytic copper (Ecu)            |
| Contact plating          | Tin-plated                           |
| Insulating material      | Polyphthalamide glass fiber (PPA-GF) |
| Flammability rating      | V0                                   |

For additional technical data, see WAGO's picoMAX® catalog.