

**PSSR 1PH CONTROL UNIT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

- Monitoring of up to 5 consumers connected in parallel
- Monitoring of single failure and short-circuit
- Can be plugged into the single-phase PSSRs with heat sink
- Feedback output for error message
- Teach button on the module and external teach input
- Undercurrent switching threshold:  $0.84 \times I_{teach}$

**General ordering data**

|            |                            |
|------------|----------------------------|
| Version    |                            |
| Order No.  | <a href="#">1406230000</a> |
| Type       | PSSR 1PH CONTROL UNIT      |
| GTIN (EAN) | 4050118206739              |
| Qty.       | 1 pc(s).                   |

## PSSR 1PH CONTROL UNIT

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 65 mm    | Depth (inches)  | 2.559 inch |
| Height     | 112.3 mm | Height (inches) | 4.421 inch |
| Width      | 25 mm    | Width (inches)  | 0.984 inch |
| Net weight | 85 g     |                 |            |

## Temperatures

|                     |                                    |                       |                |
|---------------------|------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...125 °C                    | Operating temperature | -40 °C...80 °C |
| Humidity            | 40...85 % (indoor) no condensation |                       |                |

## Supply

|                    |                                       |                     |   |
|--------------------|---------------------------------------|---------------------|---|
| Voltage supply     | 8...30 V DC                           | Current consumption | ≤ 20 mA (feedback output unloaded), ≤ 120 mA (switched feedback output max. loaded) |
| Protective circuit | Varistor, Reverse polarity protection |                     |   |

## Control side

|  |             |  |          |
|--|-------------|--|----------|
| Rated control voltage (control input)        | 4...30 V DC | Nominal control current (control input)        | ≤ 2.5 mA |
| Rated control voltage (external teach input) | 4...30 V DC | Nominal control current (external teach input) | ≤ 2.5 mA |
| Input frequency                              | 10 Hz       |  |          |

## Control output to the PSSR

|                  |            |                           |             |
|------------------|------------|---------------------------|-------------|
| Solid-state type | Transistor | Nominal switching voltage | 8...30 V DC |
| Switch-on delay  | ≤ 15 ms    | Switch-off delay          | ≤ 16 ms     |

## Feedback output

|                    |          |                           |             |
|--------------------|----------|---------------------------|-------------|
| Solid-state type   | MOS-FET  | Nominal switching voltage | 8...30 V DC |
| Continuous current | 0.1 A    | Switch-on delay           | ≤ 100 ms    |
| Switch-off delay   | ≤ 100 ms |                           |             |

## Current monitoring

|                                  |                             |                                      |       |
|----------------------------------|-----------------------------|--------------------------------------|-------|
| Undercurrent switching threshold | 0.84 x I <sub>setting</sub> | Leakage current in PSSR output, max. | 0.3 A |
|----------------------------------|-----------------------------|--------------------------------------|-------|

## Current transformer

|                                    |      |                                    |     |
|------------------------------------|------|------------------------------------|-----|
| Current measurement range AC, max. | 40 A | Current measurement range AC, min. | 2 A |
| Current sensor hole diameter       | 9 mm |                                    |     |

## General data

|        |       |
|--------|-------|
| Colour | black |
|--------|-------|

## Insulation coordination

|                    |      |                        |     |
|--------------------|------|------------------------|-----|
| Pollution severity | 2    | Surge voltage category | III |
| Protection degree  | IP20 |                        |     |

Creation date May 8, 2024 12:50:55 PM CEST

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## Connection data

|  |                      |  |                     |
|--|----------------------|--|---------------------|
| Wire connection method                                     | Screw connection     | Tightening torque, min.                                    | 0.4 Nm              |
| Tightening torque, max.                                    | 0.5 Nm               | Clamping range, rated connection                           | 1.5 mm <sup>2</sup> |
| Clamping range, min.                                       | 0.15 mm <sup>2</sup> | Clamping range, max.                                       | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, min.       | 0.2 mm <sup>2</sup>  | Wire connection cross section, finely stranded, max.       | 1.5 mm <sup>2</sup> |
| Wire cross-section, finely stranded, min. (AWG)            | AWG 26               | Wire cross-section, finely stranded, max. (AWG)            | AWG 12              |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.2 mm <sup>2</sup>  | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm <sup>2</sup> |
| Blade size   | 0.6 x 3.5 mm         |  |                     |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001440    | ETIM 7.0    | EC001440    |
| ETIM 8.0    | EC001440    | ETIM 9.0    | EC001440    |
| ECLASS 9.0  | 27-37-18-02 | ECLASS 9.1  | 27-37-18-02 |
| ECLASS 10.0 | 27-37-18-02 | ECLASS 11.0 | 27-37-18-02 |
| ECLASS 12.0 | 27-37-18-02 | ECLASS 13.0 | 27-37-18-02 |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Approvals

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

## Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">User Documentation - Manual DE/EN</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |   |

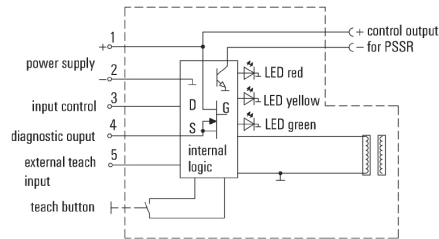
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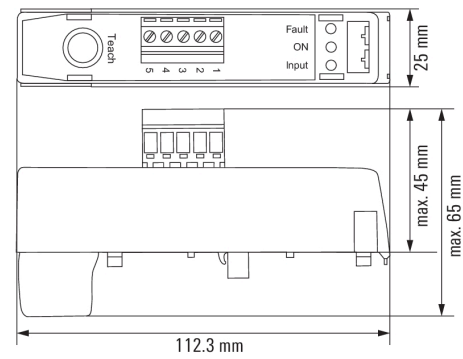
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

### Wiring diagram



### Dimensional drawing

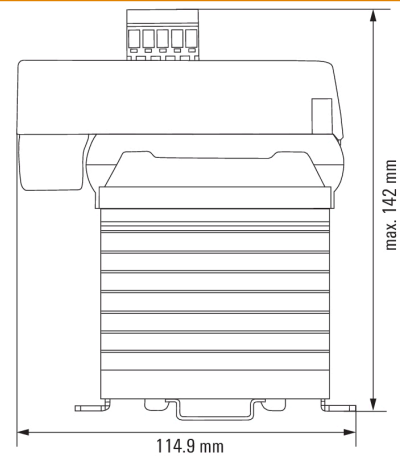


### Example of use



Current monitoring module  
mounted on a single-phase PSSR

### Dimensional drawing



Dimensions of a current-monitoring  
module mounted on a single-phase PSSR

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## Accessories

## ESG 6/17

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

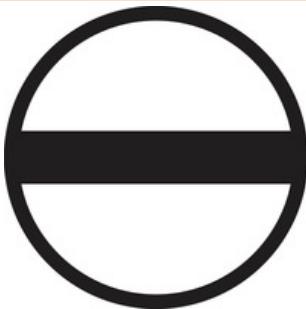
**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

**General ordering data**

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/17 MM WS             | Version                               |
| Order No.  | <a href="#">2005100000</a> | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

## Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDS 0.6X3.5X100            | Version   |
| Order No.  | <a href="#">2749340000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118895568              | thickness (A): 0.6 mm   |
| Qty.       | 1 pc(s).                   |   |

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## Accessories

### Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | ESG 6/15 RIDER MC NE WS    | Version  |
| Order No.  | <a href="#">1881280000</a> | ESG, Device markers x 15 mm, PA 66, Colour: white, pluggable |
| GTIN (EAN) | 4032248482276              |  |
| Qty.       | 200 pc(s).                 |  |

### ESG 6/15



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### General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/15 MM WS             | Version                               |
| Order No.  | <a href="#">2619940000</a> | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |