

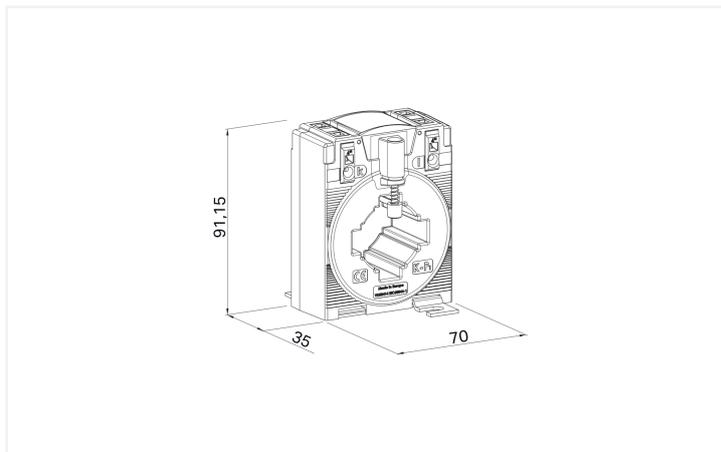
## Data Sheet | Item Number: 855-405/250-209

Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; Conformity assessed

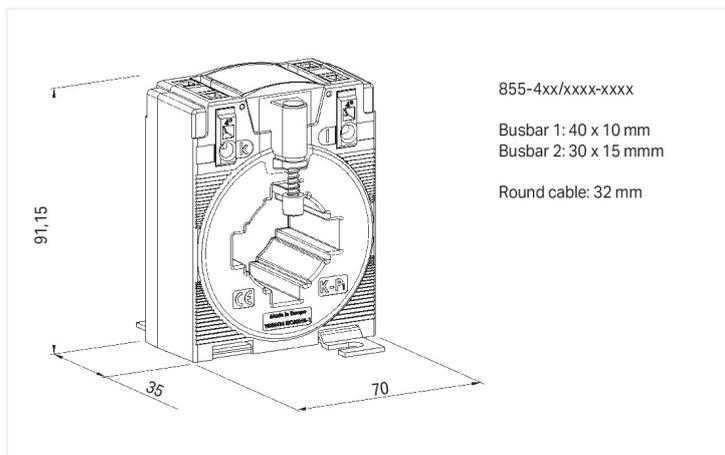
<https://www.wago.com/855-405/250-209>



Similar to illustration



Dimensions in mm



### Short description:

WAGO's plug-in current transformers for billing measurement (855 Series) are inductive, single-conductor current transformers. Due to the measurement principle used, these current transformers are exclusively designed for AC network applications.

These plug-in current transformers comply with the conformity assessment procedure (module D) and can be used for billing purposes in Germany (MessEG).

### Features:

- Screwless CAGE CLAMP® connection technology
- Several mounting options available
- Vibration- and shock-resistant
- High mechanical retention forces
- High current-carrying capacity
- Continuous overload of 120 % the nominal primary current
- Low-voltage current transformer for operating voltages up to max. 1.2 kV
- For 690 V power networks
- Accessories: 879-3040; Energy Meter; with Push-in CAGE CLAMP® and lever; transformer connection (2PUCT)

## Technical data

### Input

|                   |         |
|-------------------|---------|
| Measured variable | Current |
|-------------------|---------|

### Input – current transformer

|  |   |
|--|---|
| Rated continuous thermal current $I_{cth}$ | AC $1.2 \times I_N$                                     |
| Rated short-time thermal current $I_{th}$  | $60 \times I_N / 1 \text{ s}$ (max. 100 kA / 1 s)       |
| Overcurrent limiting factor                | FS5 / FS10 (type dependent; see type plate inscription) |
| Rated frequency                            | 50 ... 60 Hz  |
| Primary rated current                      | 250 A   |

### Output – current transformer

|                         |        |
|-------------------------|--------|
| Secondary rated current | 5 A    |
| Rated power $S_f$       | 2.5 VA |

### Measurement Error

|                |     |
|----------------|-----|
| Accuracy class | 0.5 |
|----------------|-----|

## Safety and protection

|                                     |                          |
|-------------------------------------|--------------------------|
| Test voltage                        | 6 kVAC; 50 Hz; 1 min     |
| Highest voltage for equipment $U_m$ | 1.2 kV <sub>rms</sub> AC |

## Connection Data

|                                       |         |
|---------------------------------------|---------|
| Feedthrough for measurement conductor | Ø 32 mm |
|---------------------------------------|---------|

### Connection 1

|                         |  |
|-------------------------|--|
| Connection technology   | CAGE CLAMP®                                |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches         |
| Solid conductor         | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |

## Physical data

|        |                         |
|--------|-------------------------|
| Width  | 70 mm / 2.756 inches    |
| Height | 91.15 mm / 3.589 inches |
| Depth  | 52 mm / 2.047 inches    |

## Mechanical data

|               |  |
|---------------|--|
| Mounting type | Closed current transformer<br>Installation on mounting plate<br>Mounting on DIN-rail via DIN-rail adapter<br>Installation on round cable |
|---------------|--|

## Material data

|                  |       |
|------------------|-------|
| Insulation class | E     |
| Fire load        | 0 MJ  |
| Weight           | 280 g |

| Environmental requirements      |                |
|---------------------------------|----------------|
| Ambient temperature (operation) | -5 ... +50 °C  |
| Ambient temperature (storage)   | -25 ... +70 °C |
| Operating altitude (max.)       | 1000 m         |

| Standards and Specifications |                          |
|------------------------------|--------------------------|
| Conformity marking           | CE                       |
| Standards/specifications     | EN 61869-1<br>EN 61869-2 |

| Commercial data       |             |
|-----------------------|-------------|
| PU (SPU)              | 1 pcs       |
| Packaging type        | Box         |
| Country of origin     | DE          |
| Customs tariff number | 85043129900 |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121006             |
| ETIM 9.0               | EC002048             |
| ETIM 10.0              | EC002048             |
| ECCN                   | NO US CLASSIFICATION |

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

### Approvals / Certificates

| General approvals          |                 |                         | Declarations of conformity and manufacturer's declarations |                 |                         |
|----------------------------|-----------------|-------------------------|--|-----------------|-------------------------|
|                            |                 |                         | <b>Approval</b>  | <b>Standard</b> | <b>Certificate Name</b> |
|                            |                 |                         | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG         | -               | -                       |
| <b>Approval</b>            | <b>Standard</b> | <b>Certificate Name</b> |  |                 |                         |
| EAC<br>GZO Almaty Standart | TP TC 004/2011  | EAC CoC 03082           |  |                 |                         |

### Downloads

| Environmental Product Compliance                    |                   |
|---|-------------------|
| Compliance Search                                   |                   |
| Environmental Product Compliance<br>855-405/250-209 | <a href="#">↓</a> |

Documentation

| Bid Text        |            |                  |                   |
|-----------------|------------|------------------|-------------------|
| 855-405/250-209 | 05.10.2020 | xml<br>6.01 KB   | <a href="#">↓</a> |
| 855-405/250-209 | 05.10.2020 | docx<br>17.57 KB | <a href="#">↓</a> |

| Instruction Leaflet   |                   |                   |
|-----------------------|-------------------|-------------------|
| Aufsteck-Stromwandler | pdf<br>1438.11 KB | <a href="#">↓</a> |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Mounting adapter

1.1.1.1 DIN-rail adapter



[Item No.: 855-9900](#)  
Carrier rail adapter

1.1.1.2 Fast connection adapter



[Item No.: 855-9910](#)  
Quick-mount kit

1.1.2 Signal conditioner

1.1.2.1 Current Signal Conditioner



[Item No.: 857-551](#)  
Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width



[Item No.: 857-550](#)  
Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm<sup>2</sup>

1.1.2.2 Energy Meter



[Item No.: 879-3040](#)  
Energy meter (MID25); for transformer connection; 1 A / 5 A; 3x230/400V; 50Hz; Modbus® and M-Bus; 2 x S0 interface; 2PU CT

### 1.1.2.3 Power Measurement Module



**Item No.: 2857-570/024-005**

3-Phase Power Measurement Module; 3x277/480 V/5 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

**Item No.: 857-569**

Power signal conditioner; Current and voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

### 1.1.3 Tool

#### 1.1.3.1 Operating tool

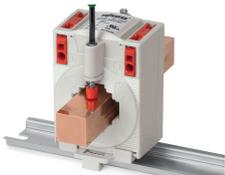


**Item No.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

### Installation Notes

#### Installation



Installation on copper current bar



Installation on round cable



Installation on mounting plate



Mounting on DIN-rail via 855-9900 DIN-Rail Adapter



Snapping onto DIN-rail



Snapping onto DIN-rail



Installation via 855-9910 Quick-Mount Kit

### Conductor termination



Conductor termination – screwdriver actuation perpendicular to conductor entry



Conductor termination – screwdriver actuation parallel to conductor entry