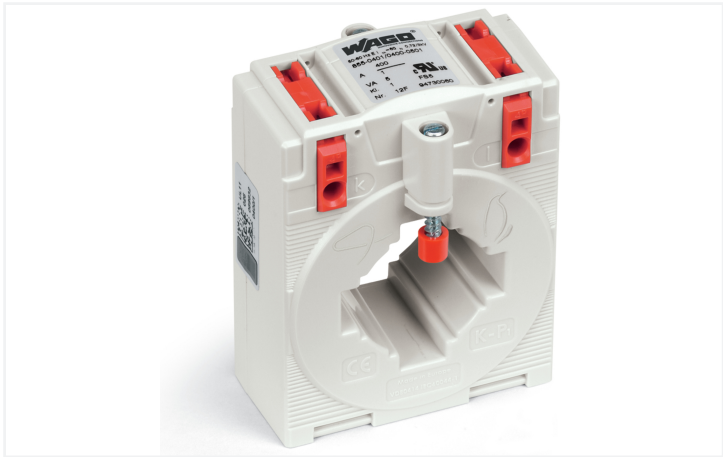


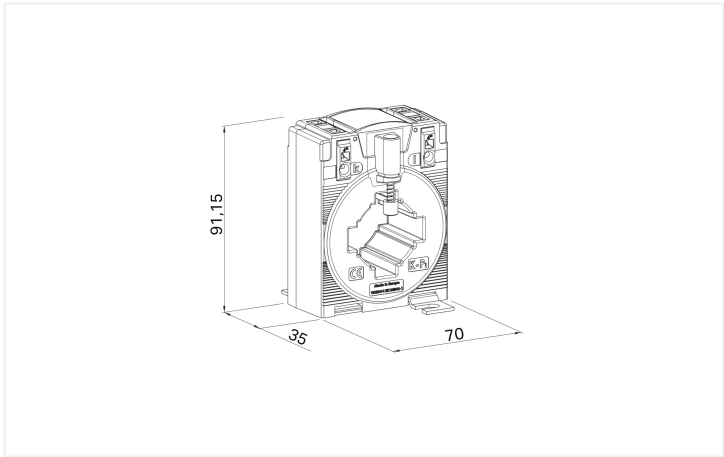
**Data Sheet | Item Number: 855-401/250-501**

Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

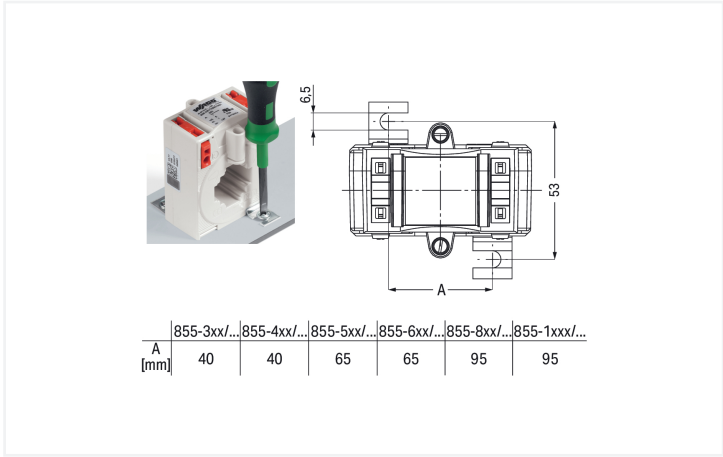
<https://www.wago.com/855-401/250-501>



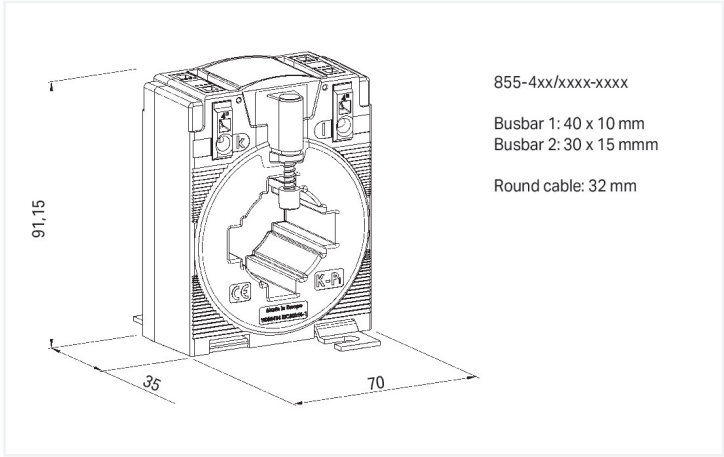
Similar to illustration



Dimensions in mm



Dimensions in mm



**Short description:**

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

**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
- UL recognized components



Technical data

| Input             |         | Input – current transformer                |                                                         |
|-------------------|---------|--------------------------------------------|---------------------------------------------------------|
| Measured variable | Current | Rated continuous thermal current $I_{cth}$ | $1.2 \times I_N$                                        |
|                   |         | 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 |      | Measurement Error |   |
|------------------------------|------|-------------------|---|
| Secondary rated current      | 1 A  | Accuracy class    | 1 |
| Rated power $S_r$            | 5 VA |                   |   |

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 mm² / 28 ... 12 AWG     |
|                                       |         | Fine-stranded conductor | 0.08 ... 4 mm² / 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           | 370 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<br>UL: E356480 |

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

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121032             |
| eCl@ss 10.0            | 27-21-09-02          |
| eCl@ss 9.0             | 27-21-09-02          |
| 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                                                                                                                                                                                                                                           |                  |          |                  |                                                         |   |   |                                                         |   |   |
| <div></div> |                |                                                                                                                                                                                                                                                                                                      |                  |          |                  |                                                         |   |   |                                                         |   |   |
| Approval                                                                                      | Standard       |                                                                                                                                                                                                                                                                                                      | Certificate Name |          |                  |                                                         |   |   |                                                         |   |   |
| EAC                                                                                           | TP TC 004/2011 |                                                                                                                                                                                                                                                                                                      | EAC CoC 03082    |          |                  |                                                         |   |   |                                                         |   |   |
| GZO Almaty Standart                                                                           |                |                                                                                                                                                                                                                                                                                                      |                  |          |                  |                                                         |   |   |                                                         |   |   |
|                                                                                               |                | <div><table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor-<br/>mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor-<br/>mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr></table></div> | 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 | - | - |
| 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 Compliance  
855-401/250-501

↓

Documentation

Bid Text

|                 |            |                 |   |
|-----------------|------------|-----------------|---|
| 855-401/250-501 | 19.02.2019 | xml<br>4.91 KB  | ↓ |
| 855-401/250-501 | 11.12.2017 | doc<br>31.50 KB | ↓ |

Instruction Leaflet

|                       |                   |   |
|-----------------------|-------------------|---|
| Aufsteck-Stromwandler | pdf<br>1438.11 KB | ↓ |
|-----------------------|-------------------|---|

CAD/CAE-Data

CAD data

|                                 |   |
|---------------------------------|---|
| 2D/3D Models<br>855-401/250-501 | ↓ |
|---------------------------------|---|

CAE data

|                                      |   |
|--------------------------------------|---|
| EPLAN Data Portal<br>855-401/250-501 | ↓ |
| ZUKEN Portal<br>855-401/250-501      | ↓ |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Installation

1.1.1.1 Current transformer terminal block



**Item No.: 2007-8876**  
Compact terminal block; for 3-phase current transformer circuit; 6,00 mm²; multicoloured



**Item No.: 2007-8873**  
Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured



**Item No.: 2007-8874**  
Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured



**Item No.: 2007-8875**  
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured



**Item No.: 2007-8877**  
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



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

1.1.2.2 Fast connection adapter



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

1.1.3 Signal conditioner

1.1.3.1 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>

1.1.3.2 Power Measurement Module



[Item No.: 2857-570/024-001](#)  
3-Phase Power Measurement Module; 3x277/480 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

1.1.4 Tool

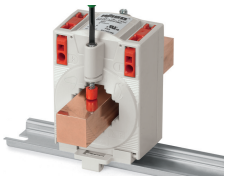
1.1.4.1 Operating tool



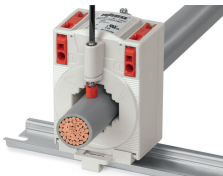
[Item No.: 210-720](#)  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

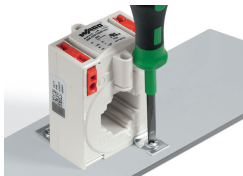
Installation



Installation on copper current bar



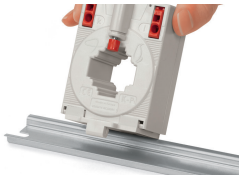
Installation on round cable



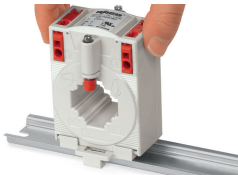
Installation on mounting plate



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