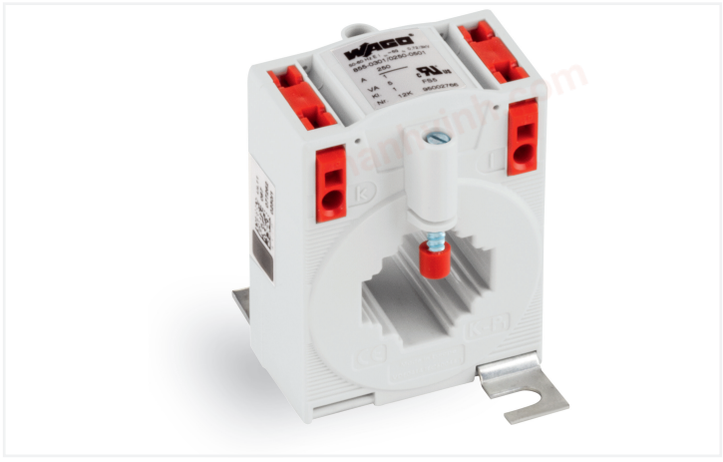
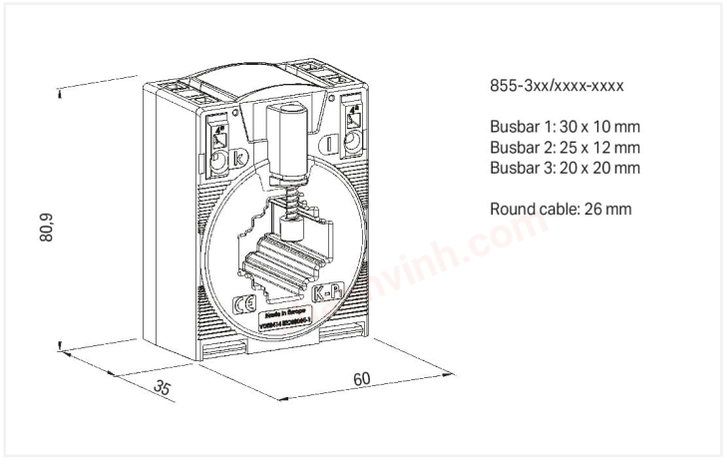
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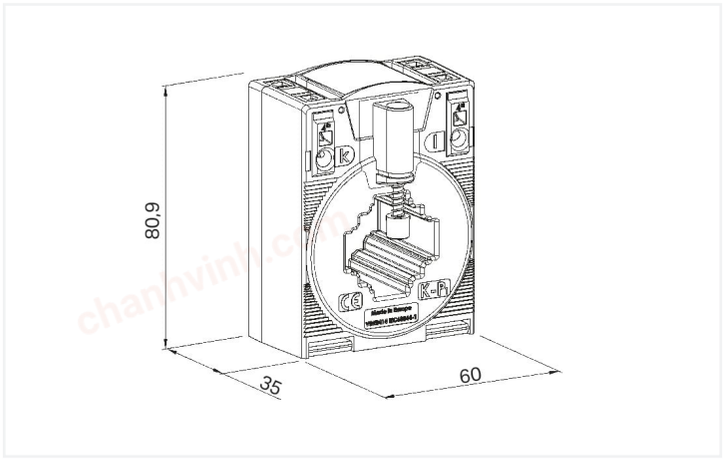
# Data Sheet | Item Number: 855-301/250-501

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

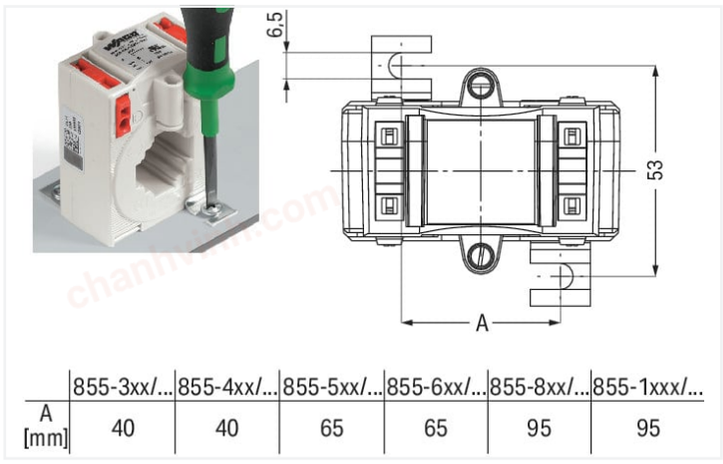
https://www.wago.com/855-301/250-501






Dimensions in mm




| | 855-3xx/... | 855-4xx/... | 855-5xx/... | 855-6xx/... | 855-8xx/... | 855-1xxx/... |
|---|---|---|---|---|---|---|
| A [mm] | 40 | 40 | 65 | 65 | 95 | 95 |

Dimensions in mm

**Kurzbeschreibung:**

Aufsteck-Stromwandler der Serie 855 sind induktive, nach dem Trafo-Prinzip arbeitende, 1-Leiter-Stromwandler. Aufgrund des angewendeten Messprinzips eignen sich Stromwandler dieses Typs zur ausschließlichen Verwendung in Wechselstromnetzen.**Merkmale:**

- Schraubenlose Anschlusstechnik mit CAGE-CLAMP®-Anschluss
- Verschiedene Montagemöglichkeiten
- Schockfest und rüttelsicher
- Hohe mechanische Haltekräfte
- Hohe Stromfestigkeit
- Ständig mit 120 % des primären Nennstroms überlastbar
- Niederspannungsstromwandler für Betriebsspannungen bis max. 1,2 kV
- Einsatz in 690V-Netzen
- UL (Recognized Components)

## Technical data

### Input

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

### Input – current transformer

| | |
|---|---|
| Rated continuous thermal current $I_{cth}$ | 1.2 x $I_N$ |
| Rated short-time thermal current $I_{th}$ | 60 x $I_N$ / 1 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 |

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## Output – current transformer

| | |
|---|---|
| Secondary rated current | 1 A |
| Rated power $S_r$ | 5 VA |

## Measurement error

| | |
|---|---|
| Accuracy class | 1 |

## Safety and protection

| | |
|---|---|
| Test voltage | AC 6 kV; 50 Hz; 1 min |
| Highest voltage for equipment $U_m$ | AC 1.2 $kV_{rms}$ |

## Connection data

### Connection object type 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 | 60 mm / 2.362 inches |
| Height | 80.9 mm / 3.185 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 | 282 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 |

 Continued on next page

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# Data Sheet | Item Number: 855-301/250-501

https://www.wago.com/855-301/250-501

## Commercial data

| | |
|---|---|
| eCl@ss 10.0 | 27-21-09-02 |
| eCl@ss 9.0 | 27-21-09-02 |
| ETIM 8.0 | EC002048 |
| ETIM 7.0 | EC002048 |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | HU |
| Customs tariff number | 85043129900 |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>Brjansker Zertifizierungs-stelle | TP TC 004/2011,TP TC 020/2011 | EAC RU C-DE.AM02.B.00111/19 |
| UL<br>Underwriters Laboratories Inc. | C51.13 | E356480 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 855-301/250-501

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 855-301/250-501 | 19.02.2019 | xml<br>4.95 KB |
| 855-301/250-501 | 05.02.2015 | doc<br>31.00 KB |

**Instruction Leaflet**

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

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## CAD/CAE-Data

| CAD data | CAE data |
|---|---|
| 2D/3D Models 855-301/250-501 | EPLAN Data Portal 855-301/250-501 |
| | WSCAD Universe 855-301/250-501 |
| | ZUKEN Portal 855-301/250-501 |

## Engineering-Software

**Configuration and Commissioning Software**

| | | |
|---|---|---|
| WAGO Interface Configuration Software G2 FULL | 1.00.10.01 20.01.2022 | exe 112213.07 KB |
| WAGO Interface Configuration Software G2 SMALL | 1.00.10.01 20.01.2022 | exe 30238.22 KB |

# 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

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### 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 mm²

#### 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

### Conductor termination



Conductor termination – screwdriver actuation perpendicular to conductor entry

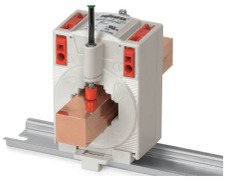


Conductor termination – screwdriver actuation parallel to conductor entry

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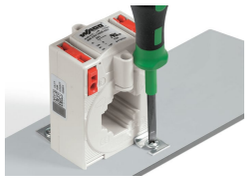
## Installation



Installation on copper current bar



Installation on round cable



Installation on mounting plate



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



Installation via 855-9910 Quick-Mount Kit

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