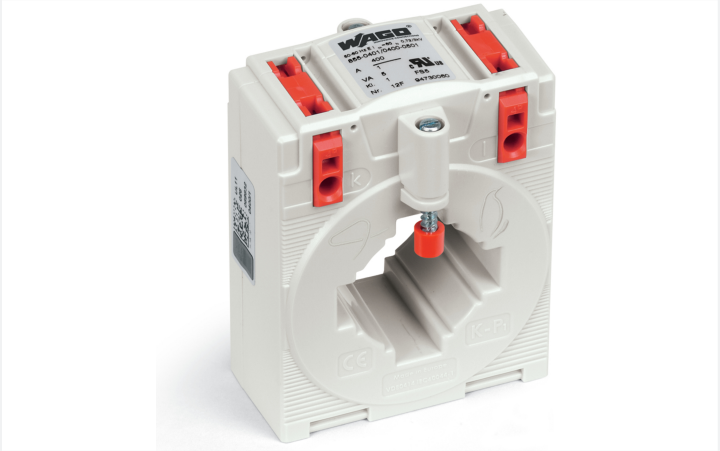
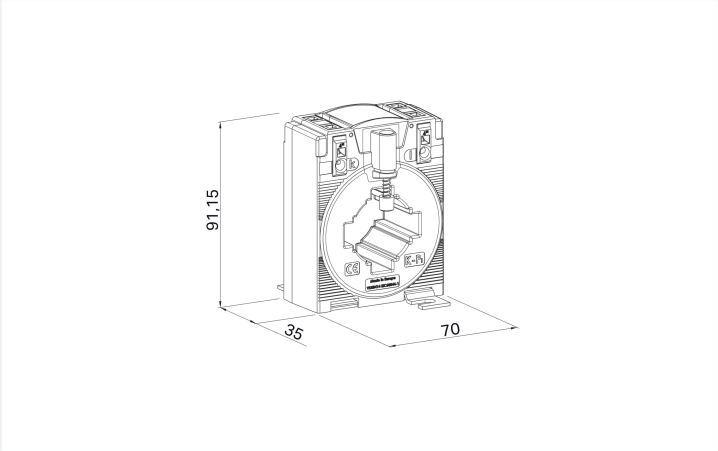
# Data Sheet | Item Number: 855-401/400-501

Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

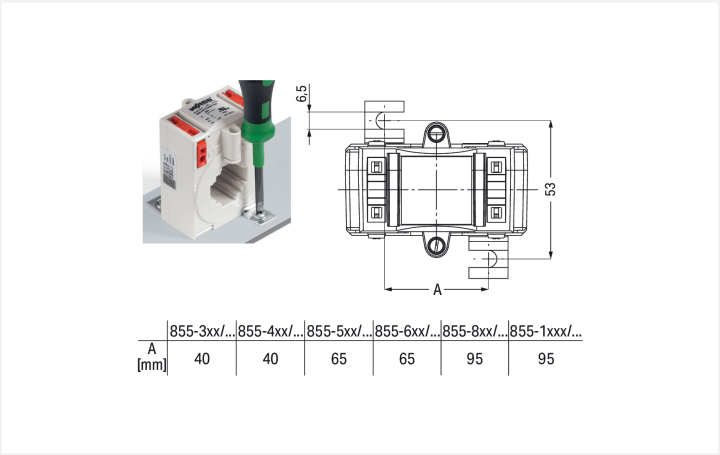
https://www.wago.com/855-401/400-501



Similar to illustration

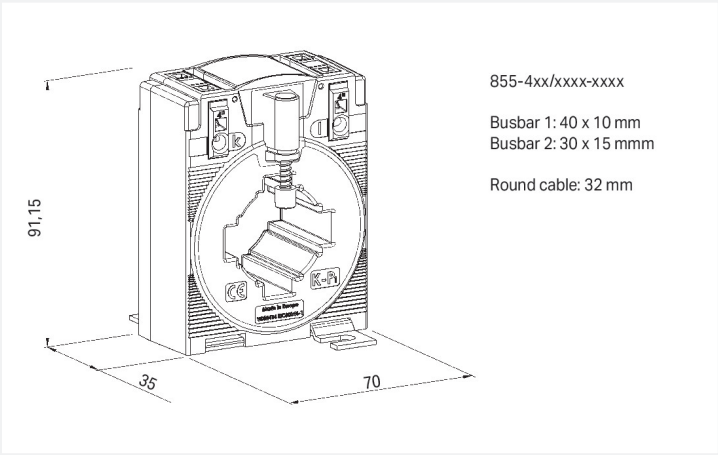



Dimensions in mm




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

Dimensions in mm




**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

| | |
|---|---|
| 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 | 400 A |

### Output – current transformer

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

### Measurement Error

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

### Safety and protection

| | |
|---|---|
| Test voltage | 6 kVAC; 50 Hz; 1 min |
| Highest voltage for equipment $U_m$ | 1.2 $kV_{rms}$ 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 |
| Weight | 230 g |


Continued on next page

## 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 | 39121006 |
| 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

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03082 |
| UL<br>Underwriters Laboratories Inc. | IEEE C57.13 | 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 | - | - |


Continued on next page

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance
855-401/400-501

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 855-401/400-501 | 19.02.2019 | xml 4.91 KB |
| 855-401/400-501 | 11.12.2017 | doc 31.00 KB |

**Instruction Leaflet**

| | |
|---|---|
| Aufsteck-Stromwandler | pdf 1438.11 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models
855-401/400-501

**CAE data**

WSCAD Universe
855-401/400-501

ZUKEN Portal
855-401/400-501

## 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; multi-coloured



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



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


Continued on next page

### 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 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

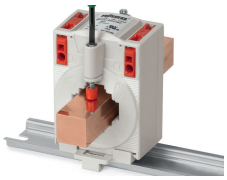


Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

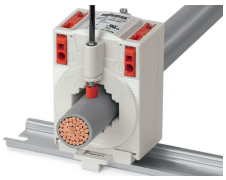

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## Installation Notes

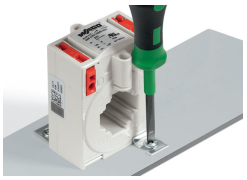
### Installation



Installation on copper current bar



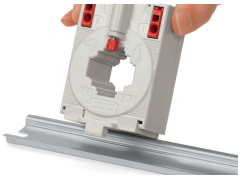
Installation on round cable



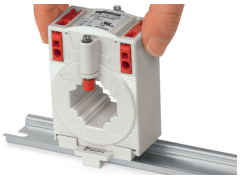
Installation on mounting plate



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