

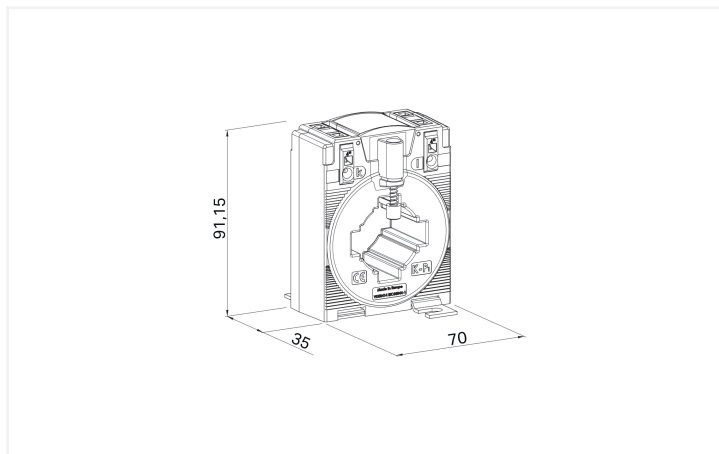
## Data Sheet | Item Number: 855-405/750-509

Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; Conformity assessed

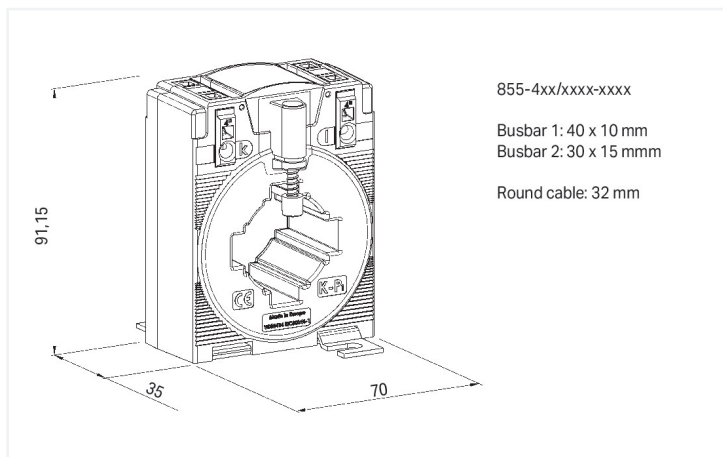
<https://www.wago.com/855-405/750-509>



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             |         | Input – current transformer                |                                                         |
|-------------------|---------|--------------------------------------------|---------------------------------------------------------|
| Measured variable | Current | Rated continuous thermal current $I_{cth}$ | AC 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                      | 750 A                                                   |

| Output – current transformer |      | Measurement Error |     |
|------------------------------|------|-------------------|-----|
| Secondary rated current      | 5 A  | Accuracy class    | 0.5 |
| 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           | 340 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                 | 39121032             |
| 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 |          |                  |
|------------------------------------------------------------------------------------|----------------|------------------|------------------------------------------------------------|----------|------------------|
|  |                |                  | Approval                                                   | Standard | Certificate Name |
| Approval                                                                           | Standard       | Certificate Name | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| EAC<br>GZO Almaty Standart                                                         | TP TC 004/2011 | EAC CoC 03082    |                                                            |          |                  |

Downloads

| Environmental Product Compliance                       |                                                                                     |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|
| Compliance Search                                      |                                                                                     |
| Environmental Product<br>Compliance<br>855-405/750-509 |  |



| Documentation   |            |                  |                       |                   |
|-----------------|------------|------------------|-----------------------|-------------------|
| Bid Text        |            |                  | Instruction Leaflet   |                   |
| 855-405/750-509 | 05.10.2020 | xml<br>6.03 KB   | Aufsteck-Stromwandler | pdf<br>1438.11 KB |
| 855-405/750-509 | 05.10.2020 | docx<br>17.59 KB |                       |                   |

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 vol-  
tage input signal; Current and voltage out-  
put signal; Digital output; Configuration  
via software; Supply voltage: 24 VDC; 6  
mm module width

1.1.3 Tool

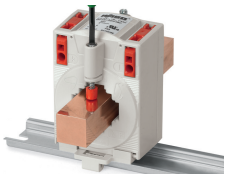
1.1.3.1 Operating tool



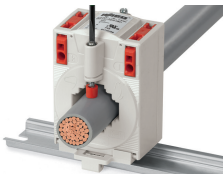
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a  
partially insulated shaft; multicoloured

Installation Notes

Installation



Installation on copper current bar



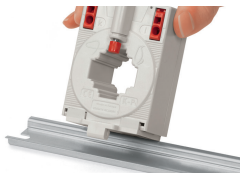
Installation on round cable



Installation on mounting plate



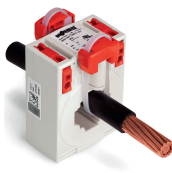
Mounting on DIN-rail via 855-9900 DIN-  
Rail Adapter



Snapping onto DIN-rail



Snapping onto DIN-rail



Installation via 855-9910 Quick-Mount Kit

Conductor termination



Conductor termination – screwdriver ac-  
tuation perpendicular to conductor entry



Conductor termination – screwdriver ac-  
tuation parallel to conductor entry