

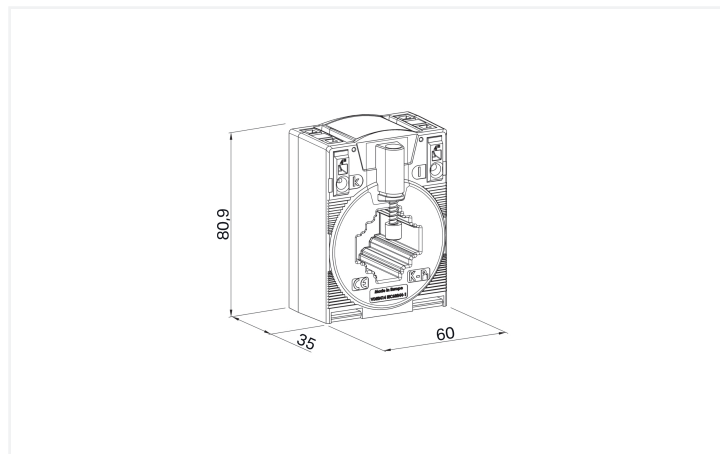
Data Sheet | Item Number: 855-305/500-509

Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; Conformity assessed

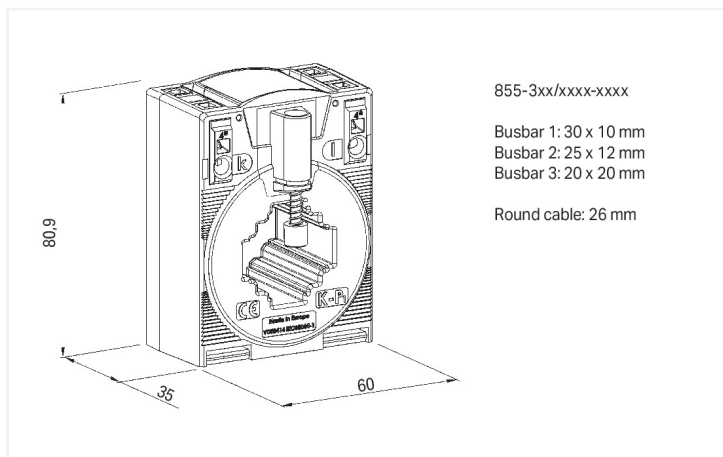
<https://www.wago.com/855-305/500-509>



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	500 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 _{rms} AC

Connection Data

Feedthrough for measurement conductor	Ø 26 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	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 Installation on mounting plate Mounting on DIN-rail via DIN-rail adapter Installation on round cable
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Material data

Insulation class	E
Fire load	0 MJ
Weight	230 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 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
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03082

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 855-305/500-509	



Documentation				
Bid Text			Instruction Leaflet	
855-305/500-509	05.10.2020	xml 6.07 KB	Aufsteck-Stromwandler	pdf 1438.11 KB
855-305/500-509	05.10.2020	docx 17.53 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 mm²

- 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

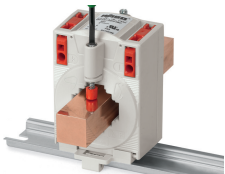
1.1.3.1 Operating tool



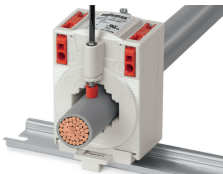
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured

Installation Notes

Installation



Installation on copper current bar



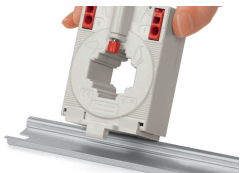
Installation on round cable



Installation on mounting plate



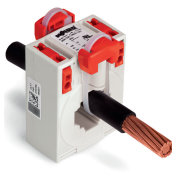
Mounting on DIN-rail via 855-9900 DIN-Rail Adapter



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