INTERFACE ELECTRONIC

Product Overview

WE INNOVATE!

WAGO Termination Technology

CAGE CLAMP®

solid **fine-stranded** **ferruled**

Rail-mounted terminal blocks with patented WAGO CAGE CLAMP® connection were introduced in 1977. CAGE CLAMP® technology is available for conductors with a rated cross section from 20 to 2 AWG (0.5–35mm²) in thousands of product variations.

CAGE CLAMP® technology is suitable for solid, stranded, fine-stranded and extra fine-stranded conductors from a cross section of 28 AWG (0.08mm²). Before inserting a conductor, the CAGE CLAMP® spring must be opened via screwdriver or via operating lever, push-button or slide found on many of our industry-leading products.

PUSH-IN CAGE CLAMP®

solid **fine-stranded** **ferruled**

After releasing the spring, the conductor, which has been inserted into the clamping point, is pressed against the current bar within a defined contact zone. The predefined contact force then ensures consistent clamping forces by automatically adjusting to the conductor cross section.

The Push-in CAGE CLAMP® technology offers the same quality and is just as easy to use as the standard CAGE CLAMP® connection, however with a significant additional benefit: Solid and stranded conductors that are rigid enough, as well as ferruled, fine-stranded conductors can be directly connected without any tools. This is achieved by simply pushing in the conductor until fully inserted, without opening the clamping unit before termination.

TABLE OF CONTENTS

The Interface Electronic overview highlights leading technologies from WAGO's comprehensive range of interface products.

Additional information on the entire product portfolio is available in the WAGO Full Line Catalog Catalog Interface Electronic, Volume 4.

857 AND 2857 SERIES

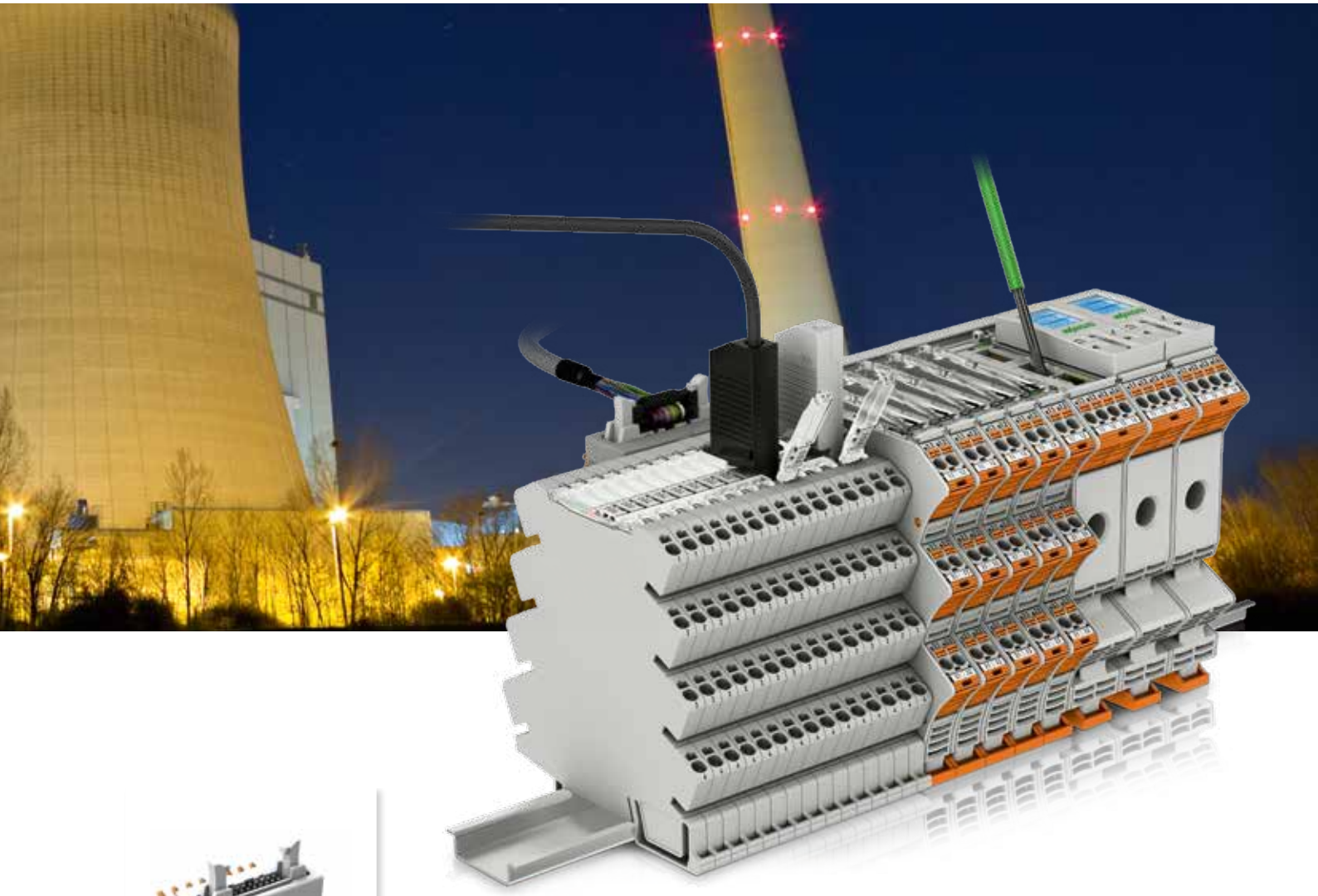
JUMPFLEX® – The Standard for Signal Conditioners!

Isolation Amplifiers

Current and Voltage Signal Conditioners

Temperature Signal Conditioners

Signal Conditioners with Specialty Functions



Accessories

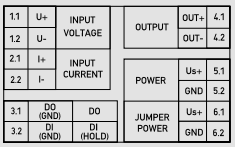
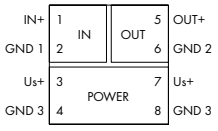
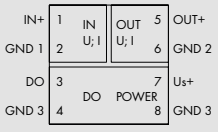
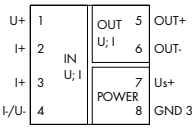
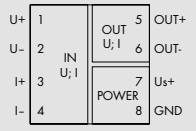
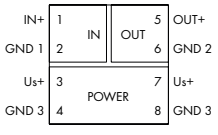
The development of the 2857 Series was driven by customers' needs for greater flexibility during system planning while maintaining uniformity in the cabinet. To achieve this, the 2857 Series' housing was designed with the same shape as the popular 857 Series while spanning all widths.

The advantage rests in the palm of your hand: There is no need to wire each individual component thanks to push-in jumpers, which saves time and effort. Tightly integrating these desirable mechanical and electrical characteristics has lead to a series of unique features that continues to set the standard for signal conditioners.

JUMPFLEX®

857 and 2857 Series

Isolation Amplifiers

Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input		
Isolation Amplifiers					A	V	
Universal Isolation Amplifier	2857-401	4050821676966			0–1 mA 0–10 mA 2–10 mA 0–20 mA 4–20 mA 0–100 mA	0–5 V 1–5 V 0–10 V 2–10 V 0–220 V	±1 mA ±10 mA ±20 mA ±100 mA ±1 V ±10 V ±30 V ±100 V ±200 V
Isolation Amplifier, Configurable via Zero/Span Adjustment	857-400	4045454471293			0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	
Isolation Amplifier, Configurable via Digital Output	857-401	045454828509			0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±20 mA ±10 V
Universal Isolation Amplifier	857-402	4050821099772			0–0.3 mA to 0–100 mA	0–60 mV to 0–200 V	±0.3 mA to ±100 mA ±60 mV to ±200V
Bipolar Isolation Amplifier	857-409	4045454828493			0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±10 mA ±20 mA ±5 V ±10 V
Isolation Amplifiers, Pre-Configured	857-411	4045454471224			0(4)–20 mA		
	857-412	4045454471309				0(2)–10 V	
	857-413	4045454609870				0–10 V	
	857-414	4045454609863				0–10 V	
	857-415	4045454609856			0–20 mA		
	857-416	4045454609849			4–20 mA		

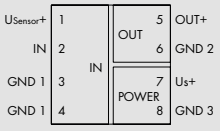
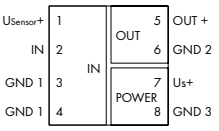
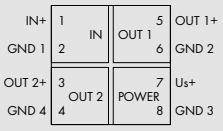
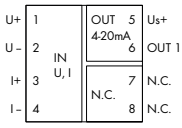
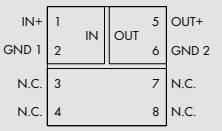
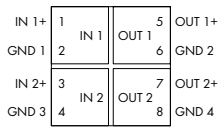
See page 65 for an explanation of the symbols used.

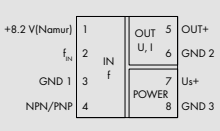
Output			Specialty Functions			Configuration Options					Power
											
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±10 mA ±20 mA ±5 V ±10 V	x	x		x		x	x	x	24 VDC
0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V				x	x					24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V		x	x		x	x	x	x		24 VDC
0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±10 mA ±20 mA ±5 V ±10 V		x	x	x	x				24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±10 mA ±20 mA ±5 V ±10 V			x	x					24 VDC
0(4)–20 mA											24 VDC
	0(2)–10 V										
0–20 mA											
4–20 mA											
	0–10 V										
	0–10 V										

Isolation Amplifiers

JUMPFLEX®

857 and 2857 Series

	Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input		
	Isolation Amplifiers					A	V	
Repeater Power Supplies	**Repeater Power Supply**	857-420	4045454471330			0–20 mA 4–20 mA		
Repeater Power Supplies	**HART Repeater Power Supply**	857-421	4045454471347			4–20 mA		
Signal Splitter	**Signal Splitter**	857-423	4045454471316			0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	
Passive Isolators	**Loop-Powered Isolation Amplifier**	857-450	4045454828479			0–5 mA 0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–1 V 0–5 V 1–5 V 0–10 V 2–10 V	±5 mA ±10 mA ±20 mA ±1 V, ±5 V ±10 V ±20 V
Passive Isolators	**Passive Isolator, 1-Channel**	857-451	4045454471323			0(4)–20 mA		
Passive Isolators	**Passive Isolator, 2-Channel**	857-452	4045454471354			2 x 0(4)–20 mA		

	Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input
	Frequency Signal Conditioner					
Frequency Signal Conditioner	**Frequency Signal Conditioner**	857-500	4050821226741			Frequency signals, NAMUR, NPN or PNP sensors 0.1 Hz to 120 kHz

See page 65 for an explanation of the symbols used.

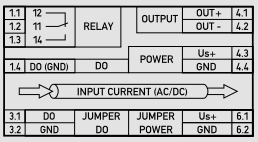
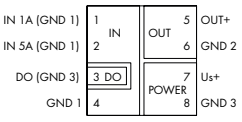
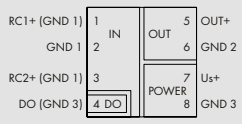
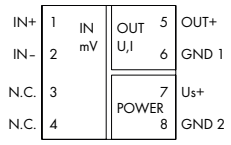
Output			Specialty Functions			Configuration Options					Power	
												
0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V					x					24 VDC	Repeater Power Supplies
4–20 mA											24 VDC	
2 x 0(4)–20 mA						x					24 VDC	Signal Splitter
4–20 mA						x					Power via output	Passive Isolators
0(4)–20 mA											Power via input	
2 x 0(4)–20 mA											Power via input	

Output			Specialty Functions			Configuration Options					Power	
												
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x		x	x		24 VDC	Frequency Signal Conditioner

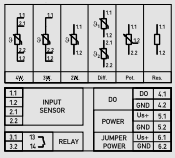
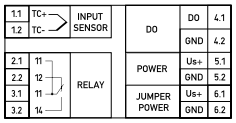
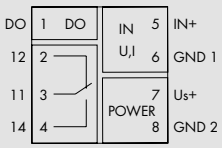
JUMPFLEX®

857 and 2857 Series

Current and Voltage Signal Conditioners

Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input		
Current and Voltage Signal Conditioners					A	V	
Through-Hole Current Signal Conditioner	2857-550	4050821676997			AC/DC 100 A		
Current Signal Conditioner	857-550	4050821226734			1 A AC/DC 5 A AC/DC		
Rogowski Current Signal Conditioner	857-552	4050821476917			Rogowski Coils 500 AAC 2000 AAC		
Millivolt Signal Conditioner	857-819	4045454665975				0-200 mV 0-1000 mV	±100 mV

Threshold Value Switches

Description	Item Number	EAN Number	Product Image	Circuit Diagram			Input
Threshold Value Switches					A	V	
RTD Threshold Value Switch	2857-533	4050821676973					
Thermocouple Threshold Value Switch	2857-534	4055143242318					
Analog Threshold Value Switch	857-531	4045454885229			0-10 mA 2-10 mA 0-20 mA 4-20 mA	0-5 V 1-5 V 0-10 V 2-10 V 0-15 V 0-30 V	±10 mA ±20 mA ±5 V ±10 V

See page 65 for an explanation of the symbols used.

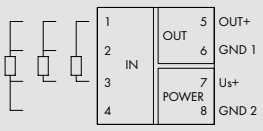
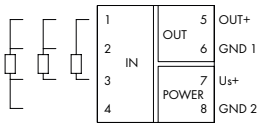
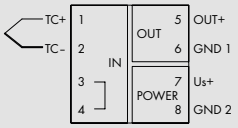
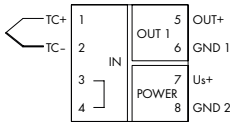
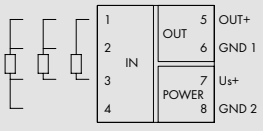
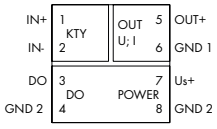
Output			Specialty Functions			Configuration Options					Power	
												
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V	±10 mA ±20 mA ±5 V ±10 V	x	x	x	x		x	x	x	24 VDC	Current and Voltage Signal Conditioners
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V		x	x		x		x	x		24 VDC	
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V		x	x		x		x	x		24 VDC	
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x		x	x		24 VDC	

		Output		Specialty Functions		Configuration Options					Power	
												
0–100 kΩ	Pt100 Pt200 Pt500 Pt1000 Pt5000 Pt10,000 Pt10–20,000	250 VAC 6 A		x		x		x	x	x	24 VDC	Threshold Value Switches
	Type J, K, E, N, R, S, T, B, C		250 VAC 6 A	x		x		x	x	x	24 VDC	
			250 VAC 6 A	x		x	x	x	x		24 VDC	

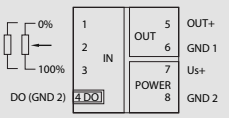
JUMPFLEX®

857 and 2857 Series

Temperature Signal Conditioners

Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input		
Temperature Signal Conditioners					ϑ°C	Ω	
Temperature Signal Conditioner for Pt Sensors and Resistance Sensors	857-800	4045454470128			Pt100 Pt200 Pt500 Pt1000	0–kΩ 0–4.5 kΩ	2-wire 3-wire 4 wire
Temperature Signal Conditioner for Pt Sensors and Resistance Sensors	857-801	4045454502713			Pt100 Pt200 Pt500 Pt1000	0–kΩ 0–4.5 kΩ	2-wire 3-wire 4 wire
Temperature Signal Conditioner for Thermocouples	857-810	4045454470135			Type J, K		
Temperature Signal Conditioner for Thermocouples	857-811	4045454502751			Type J, K, E, R, N, S, T, B, S		
Temperature Signal Conditioner for Ni Sensors	857-818	4050821099789			Ni 100 Ni 120 Ni 200 Ni 500 Ni 1000		2-wire 3-wire 4 wire
Temperature Signal Conditioner for KTY Sensors	857-820	4050821053002			KTY sensors		2-wire

Potentiometer Signal Conditioner

Description	Item Number	EAN Number	Product Image	Circuit Diagram	Input		
Potentiometer Signal Conditioner							
Potentiometer Signal Conditioner	857-809	4050821480761			Potentiometer 0–100 kΩ	10–100 kΩ	

See page 65 for an explanation of the symbols used.

Temperature Signal Conditioners

Output			Specialty Functions			Configuration Options					Power
											
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x					24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x		x	x		24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x					24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x		x	x		24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V			x		x					24 VDC
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V		x	x		x					24 VDC

Potentiometer Signal Conditioner

Output			Specialty Functions			Configuration Options					Power
											
0–10 mA 2–10 mA 0–20 mA 4–20 mA	0–5 V 1–5 V 0–10 V 2–10 V		x	x		x	x	x	x		24 VDC

JUMPFLEX®

Configuration Options and Accessories

Configuration Options

Configuration via DIP switches

Configuration via *JUMPFLEX*®-ToGo Smartphone App

Configuration Software

Configuration via touch panel – an innovative display

Configuration via push/slide switch (857 Series only)

Software

Product Image	Description	Item Number	EAN Number
	**Configuration Software** Configuration and display tool for PC	Free download: www.wago.com	–
	***JUMPFLEX*®-ToGo Smartphone App** Configuration and display tool for smartphones (Android)	Free download from Google Play	–
	**WAGO USB Service Cable** Connection between a PC (notebook) and an 857 Series' Signal Conditioner service interface	**750-923**	4045454571641
	**WAGO *Bluetooth*® Adapter** Connection between a PC (notebook) and an 857 Series' Signal Conditioner service interface	**750-921**	4044918368100

Current Transformers, Rogowski Coils and Power Supply

Product Image	Description	Item Number	EAN Number
	**Current Transformers** Primary current: 50–1000 A Secondary current: 1 A and 5 A (other values upon request or at www.wago.com)	**855 Series** see page 20	–
	**Rogowski Coils** RT 500 (1.5 m) RT 500 (3 m) RT 2000 (1.5 m) RT 2000 (3 m)	 **855-9100/500-000** **855-9300/500-000** **855-9100/2000-000** **855-9300/2000-000**	 4050821579762 4050821635734 4050821579793 4050821635918
	***JUMPFLEX*® – powered by *EPSITRON*®**	**787-2852**	4055143060554

Cabling

Product Image	Description		Item Number	EAN Number
	**Interface Adapter for System Wiring**		**857-980**	4045454995164
	**Supply and Through Module**		**857-979**	4050821088189
	**WAGO Flat Cable** 16-pole/free end, 2 m long		**706-100/1602-200**	4050821452447

Relays

Product Image	Description		Item Number	EAN Number
	**Relay with 1 Changeover Contact** 24 V / 250 VDC / 6 A		**857-304**	4050821797807

Markers

Product Image	Description		Item Number	EAN Number
	**WMB Multi Marking System**		**see www.wago.com**	–

Accessories

Product Image	Description		Item Number	EAN Number
	**Operating Tool with a Partially Insulated Shaft**, type 2, 3.5 x 0.5 mm blade		**210-720**	4045454937393
	**End Stops**		**249-116** (6 mm wide) **249-117** (10 mm wide) **249-197** (14 mm wide)	4017332270823 4017332270830 4050821517535

Push-In Type Jumper Bars

Product Image	Description		Item Number	EAN Number
	**Push-In Type Jumper Bars**, light gray, insulated, 18 A	2-way 3-way 4-way 5-way 6-way 7-way 8-way 9-way 10-pole	**859-402** **859-403** **859-404** **859-405** **859-406** **859-407** **859-408** **859-409** **859-410**	4044918506434 4044918507240 4044918507820 4044918508155 4044918508278 4044918508339 4044918508391 4044918508421 4044918508513
	Additional item no. for colored push-in type jumper bars	yellow red blue	**... /000-029** **... /000-005** **... /000-006**	– – –
	**Comb-Style Jumper Bar**	2-way	**281-482**	4044918523042

CURRENT AND ENERGY MEASUREMENT

Transparency Pays Dividends

WAGO-I/O-SYSTEM, 750 Series

3-Phase Power Measurement Modules

Measure voltage and current, as well as power and energy consumption in three-phase networks.

Current Transformers, 855 Series

- Split-Core Current Transformers
- Plug-In Current Transformers

Rogowski Coils, 855 Series

Convert AC currents up to 2000 A.

JUMPFLEX® Current Signal Conditioners, 857 and 2857 Series

Measure and convert AC/DC currents into standard analog signals.

TECHNOLOGY

Intelligent Current Sensors, 789 Series

Monitor AC/DC currents up to 140 A.

Never before has the demand for systematic energy management been greater because it can significantly reduce ever-escalating energy costs. The use of standardized and cost-effective automation technology has simplified what was previously an exhausting puzzle consisting of the most varied technological components.

Many energy management projects show that energy savings of 30 % or more are possible, depending on the operating situation. When starting this type of project, however, only the total energy costs are initially known. There is a distinct lack of information about the amount of energy used by specific points, and exactly where energy can be saved. Therefore, improvement processes begin with the systematic recording, analysis and evaluation of an organization's energy consumption.

3-PHASE POWER MEASUREMENT MODULES

CAGE CLAMP®

WAGO-I/O-SYSTEM 750

We Reduce Your Energy Costs

The WAGO-I/O-SYSTEM 750 offers a comprehensive range of perfectly tuned solutions for your energy measurement applications. The 3-phase Power Measurement Modules detect and process all relevant variables in a 3-phase supply network. They provide system operators with increased insight into energy consumption by specific machines and systems, as well as the ability to perform comprehensive network analysis.

We Protect Your Machines

Additionally, collected metrics allow the operator to optimize the supply to a drive or machine, protecting the system from damage and failure. To achieve this, WAGO's 3-Phase Power Measurement modules can be easily integrated into existing systems for intelligent and economical machine protection.

Item Number	750-493	750-494	750-495
EAN number	4050821683841	4050821548232	4050821548256
Energy consumption	✔	✔	✔
Voltage	3~ 480 V	3~ 480 V	3~ 480 V/690 V
Current	1 A (750-493) 5 A (750-493/000-001)	1 A (750-494) 5 A (750-494/000-001)	1 A (750-495) 5 A (750-495/000-001) Rogowski coil (750-495/000-002)
Active energy/power	✔	✔	✔
Phase position	✔	✔	✔
Reactive power/energy	via function block	✔	✔
Apparent power/energy	via function block	✔	✔
Rotary field detection		✔	✔
Power factor	(✔)	✔	✔
Frequency measurement	✔	✔	✔
Four-quadrant operation (inductive, capacitive, consumer, generator)		✔	✔
Harmonic analysis (up to the 41st harmonic)		✔	✔
Neutral conductor measurement			✔
Extended temperature range		✔	
Housing width	12 mm	12 mm	24 mm

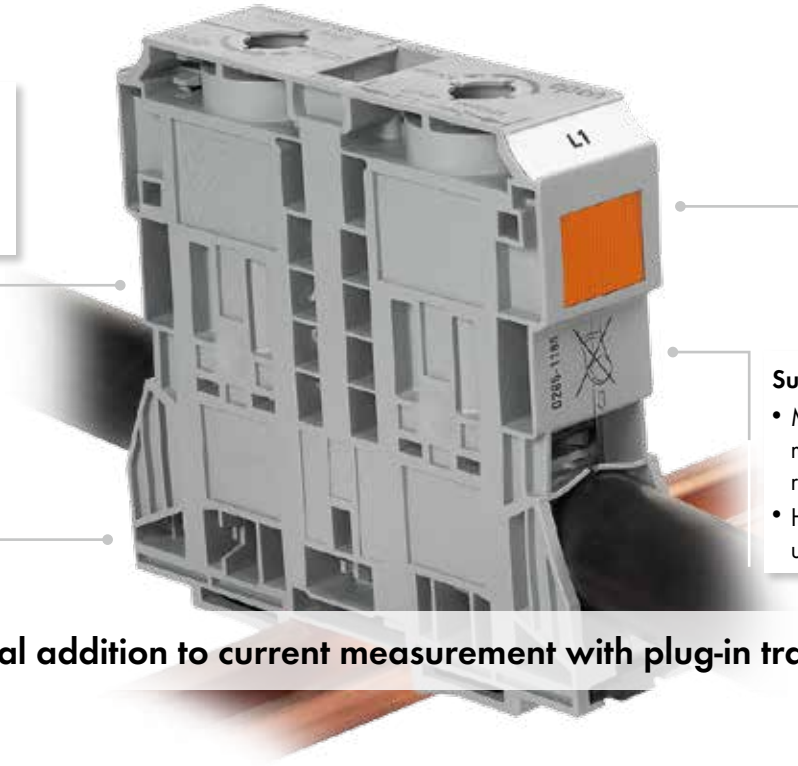
HIGH-CURRENT, RAIL-MOUNTED TERMINAL BLOCKS

POWER CAGE CLAMP®

285 Series

Fast termination:
- Eliminate time-consuming preparation – no ring terminals or ferrules required

Easy termination:
- Side conductor entry
- Orange locking tab keeps the clamp open for hands-free wiring



Always reliable:
- Optimum clamping force – independent of operator skill

Suitable for all applications:
- Meet the most stringent requirements, including those specified for railway and marine applications.
- Heat- and cold-resistant – even under the heaviest of loads.

The ideal addition to current measurement with plug-in transformers

Designation	**35 mm² 2 AWG**		**50 mm² 2/0 AWG**		**95 mm² 4/0 AWG**		**185 mm² 350 kcmil**	
Conductor sizes	6–35 mm²		10–50 mm²		25–95 mm²		50–185 mm² (ground acc. to standard max. 120 mm²)	
	10–2 AWG		8–2/0 AWG		4–4/0 AWG		0 AWG to 350 kcmil	
Nominal current I_N	125 A		150 A		232 A		353 A	
Rated voltage	1000 V		1000 V		1000 V		1000 V AC/DC 1500 VDC	
	Item Number	EAN Number	Item Number	EAN Number	Item Number	EAN Number	Item Number	EAN Number
Through terminal block	285-135	4045454507381	285-150	4045454507411	285-195	4044918452564	285-1185	4055143067065
Through terminal block	285-134	4045454507398	285-154	4045454507428	285-194	4044918452533	285-1184	4055143067058
Ground conductor terminal block	285-137	4045454507404	285-157	4045454507435	285-197	4045454204372	285-1187	4055143067072
Adjacent jumper	285-435	4044918396400	285-450	4045454549664	285-495	4044918269490	285-1171	4055143067003
Step-down jumper (for TOBJOP® S, 10/16 mm²)	285-430	4045454910945	–	–	–	–	–	–
Power tap	285-427	4045454549626	285-447	4045454549657	285-407	4045454326241	–	–
Three phase set (without DIN-rail and marking accessories)	285-139	4045454584252	285-159	4045454584269	285-199	4045454204396	285-1169	4055143074322
Warning cover	285-420	4045454549633	285-440	4045454549671	285-170	4017332607094	285-1177	4055143065054
Shock protector	285-421	4045454549640	285-441	4045454549688	285-169	4017332028691	285-1178	4055143067027
Marking strips (reel)	2009-110	4044918102483	2009-110	4044918102483	2009-110	4044918102483	2009-110	4044918102483
Marker carrier	285-442	4045454824952	285-442	4045454824952	285-442	4045454824952	–	–
WMB Inline markers (reel)	2009-115	4044918923590	2009-115	4044918923590	2009-115	4044918923590	2009-115	4044918923590
WMB Multi marking system (for 5–5.2 mm)	793-5501	4044918805858	793-5501	4044918805858	793-5501	4044918805858	793-5501	4044918805858

PLUG-IN CURRENT TRANSFORMERS

855 Series

Item Number	EAN Number	Product Image	Primary Rated Current	Secondary Rated Current	Rated Power	Accuracy Class
855-0301/0050-0103	4050821614654		50	1	1.25	3
855-0305/0050-0103	4050821749301		50	5	1.25	3
855-0301/0060-0101	4050821616856		60	1	1.25	1
855-0305/0060-0101	4050821749318		60	5	1.25	1
855-0301/0075-0201	4050821616863		75	1	2.5	1
855-0305/0075-0201	4050821749325		75	5	2.5	1
855-0301/0100-0201	4050821616870		100	1	2.5	1
855-0305/0100-0201	4050821749332		100	5	2.5	1
855-0301/0150-0501	4050821616887		150	1	5	1
855-0305/0150-0501	4050821749349		150	5	5	1
855-0301/0200-0501	4050821616894		200	1	5	1
855-0305/0200-0501	4050821749356		200	5	5	1
855-0301/0250-0501	4050821616900		250	1	5	1
855-0305/0250-0501	4050821749363		250	5	5	1
855-0301/0400-1001	4050821616917		400	1	10	1
855-0305/0400-1001	4050821749387		400	5	10	1
855-0301/0600-1001	4050821616924		600	1	10	1
855-0305/0600-1001	4050821749400		600	5	10	1
855-0405/0250-0501	4050821845706		250	5	5	1
855-0401/0400-0501	4050821616931		400	1	5	1
855-0405/0400-0501	4050821749370		400	5	5	1
855-0401/0600-0501	4055143262521		600	1	5	1
855-0505/0400-1001	4050821845881		400	5	10	1
855-0505/0600-1001	4050821845737		600	5	10	1
855-0505/0800-1001	4050821845744		800	5	10	1
855-0501/1000-1001	4050821616948		1000	1	10	1
855-0505/1000-1001	4050821749417		1000	5	10	1
855-0605/1500-0501	4055143262538		1500	5	5	1
855-0601/1500-0501	4055143263009		1500	1	5	1
855-0805/2000-1001	4055143262996		2000	5	10	1
855-0801/2000-1001	4055143262989		2000	1	10	1
855-1005/2500-1001	4055143262972		2500	5	10	1
855-1001/2500-1001	4055143262965		2500	1	10	1

Accessories

Item Number	EAN Number	Product Image	Description
855-9900	4050821627593		Carrier Rail Adapter for Plug-In Current Transformers (855-3xx and 855-4xx)
855-9910	4050821749981		Quick-Mount Kit (2 pieces including cable tie)

Plug-in current transformers are ideal anywhere high currents are measured and processed. WAGO's 855 Series Current Transformers convert primary rated currents into electrically isolated secondary currents of 1 A or 5 A. They can be used in temperatures ranging from -5 to +50 °C and may be permanently loaded with up to 120 % of the nominal current. The 855 Series components are UL-recognized and suitable for 230 V, 400 V and 690 V low-voltage applications.

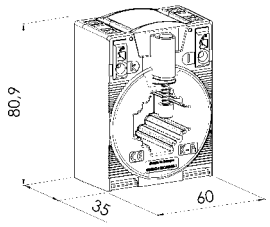
The plug-in current transformers are inductive, single-conductor current transformers. Their key feature is the screwless, shock- and vibration-resistant CAGE CLAMP® connection technology for conductors ranging from 0.08 mm^2 to 4 mm^2 (28–12 AWG). The 855 Series' plastic housing is extremely robust and can be mounted in four different ways on: round cables, copper current bars, mounting plates and – depending on the version – carrier rails.

03

855-03xx/xxxx-xxxx

Rail 1: 30 x 10 mm
Rail 2: 25 x 12 mm
Rail 3: 20 x 20 mm

Round cable: 26 mm

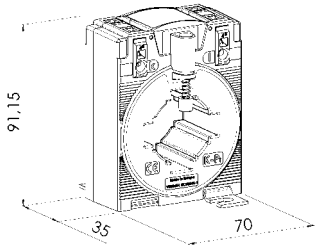


04

855-04xx/xxxx-xxxx

Rail 1: 40 x 10 mm
Rail 2: 30 x 15 mm

Round cable: 32 mm

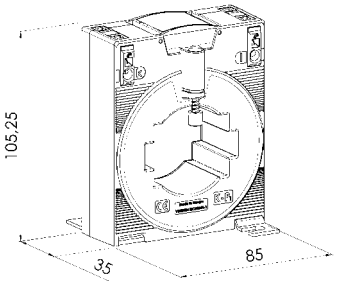


05

855-05xx/xxxx-xxxx

Rail 1: 50 x 12 mm
Rail 2: 40 x 30 mm

Round cable: 44 mm

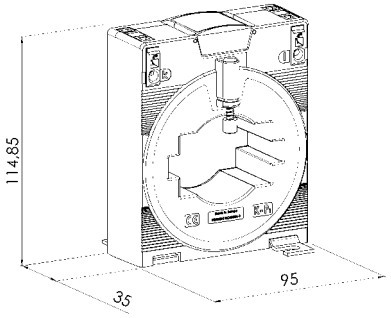


06

855-06xx/xxxx-xxxx

Rail 1: 63 x 10 mm
Rail 2: 50 x 30 mm

Round cable: 44 mm

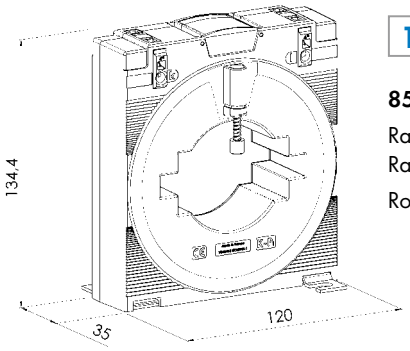


08

855-08xx/xxxx-xxxx

Rail 1: 80 x 10 mm
Rail 2: 60 x 30 mm

Round cable: 55 mm

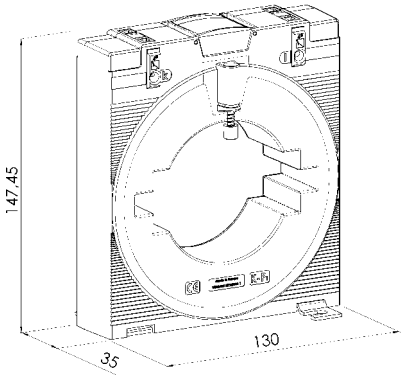


10

855-10xx/xxxx-xxxx

Rail 1: 100 x 10 mm
Rail 2: 80 x 30 mm

Round cable: 70 mm



SPLIT-CORE CURRENT TRANSFORMERS

855 Series

WAGO's compact split-core current transformers are ideal for retrofitting existing systems. They are particularly well suited to applications in which the current path may not be disrupted. The transformer's accuracy permits extremely precise current measurements.

The split-core current transformers are capable of supplying the specified rated power at the end of the secondary cable. All transformers are supplied with color-coded cables. Two UV-resistant cable ties for secure and easy mounting are also included.

	Product Image	Item Number	EAN Number	Primary Rated Current	Secondary Rated Current	Rated Power	Accuracy Class	Cable Length
18 mm Ø		855-3001/0060-0003	4050821880554	60 A	1 A	0.2 VA	3	3 m
		855-3001/0100-0003	4050821880561	100 A	1 A	0.2 VA	3	3 m
		855-3001/0200-0001	4050821880677	200 A	1 A	0.2 VA	1	3 m
		855-3001/0250-0001	4050821880684	250 A	1 A	0.2 VA	1	3 m
18 mm Ø		855-4001/0100-0001	4050821880578	100 A	1 A	0.2 VA	1	3 m
		855-4001/0150-0001	4050821880585	150 A	1 A	0.2 VA	1	3 m
		855-4005/0150-0101	4055143056342	150 A	5 A	1 VA	1	0.5 m
		855-4001/0200-0001	4050821880592	200 A	1 A	0.2 VA	0.5	3 m
28 mm Ø		855-4101/0200-0001	4050821880608	200 A	1 A	0.2 VA	1	3 m
		855-4101/0250-0001	4050821880615	250 A	1 A	0.2 VA	1	3 m
		855-4105/0250-0101	4055143056359	250 A	5 A	1 VA	1	0.5 m
		855-4101/0400-0001	4050821880622	400 A	1 A	0.2 VA	1	3 m
		855-4105/0400-0101	4055143056366	400 A	5 A	1 VA	1	0.5 m
42 mm Ø		855-5001/0250-0001	4055143163064	250 A	1 A	0.5 VA	1	5 m
		855-5001/0400-0000	4050821880653	400 A	1 A	0.5 VA	0.5	5 m
		855-5005/0400-0001	4055143056373	400 A	5 A	0.5 VA	1	3 m
		855-5001/0600-0000	4050821880646	600 A	1 A	0.5 VA	0.5	5 m
		855-5005/0600-0000	4055143056380	600 A	5 A	0.5 VA	0.5	3 m
		855-5001/1000-0000	4050821880639	1000 A	1 A	0.5 VA	0.5	5 m
		855-5005/1000-0000	4055143056397	1000 A	5 A	0.5 VA	0.5	3 m
29 x 42 mm Ø		855-5101/1000-0000	4050821880660	1000 A	1 A	0.5 VA	0.5	5 m
		855-5105/1000-0000	4055143056403	1000 A	5 A	0.5 VA	0.5	3 m

PLUG-IN CURRENT TRANSFORMERS

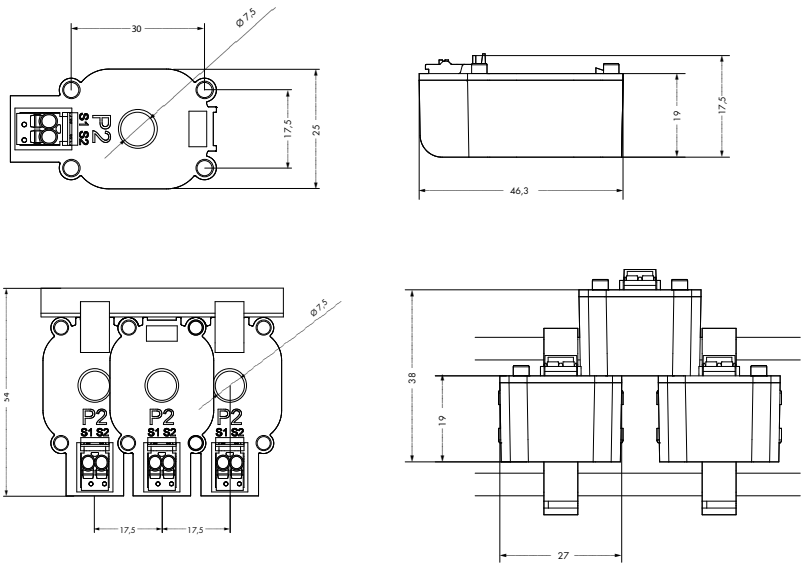
855 Series with a *picoMAX*® Pluggable Connector

Today, extensive current measurements are required in many systems. And the space available for measurement is typically very limited, while relatively low values are being measured. At the same time, measurements must be performed with sufficient accuracy (at least class 1). WAGO's extremely compact current transformer was specifically designed for connection to digital measurement systems.

Its compact design makes it ideally suited for use in a 3-phase power circuit breaker featuring 17.5 mm phase spacing. The current transformer features a *picoMAX*® Pluggable Connector for easily wiring secondary conductors.

Item Number	EAN Number	Primary Rated Current	Secondary Rated Current	Rated Power	Accuracy Class
855-2701/0035-0001	4050821864240	35 A	1 A	0.2 VA	1
855-2701/0064-0001	4050821864189	64 A	1 A	0.2 VA	1
855-9927	4050821866381	Carrier Rail Adapter			

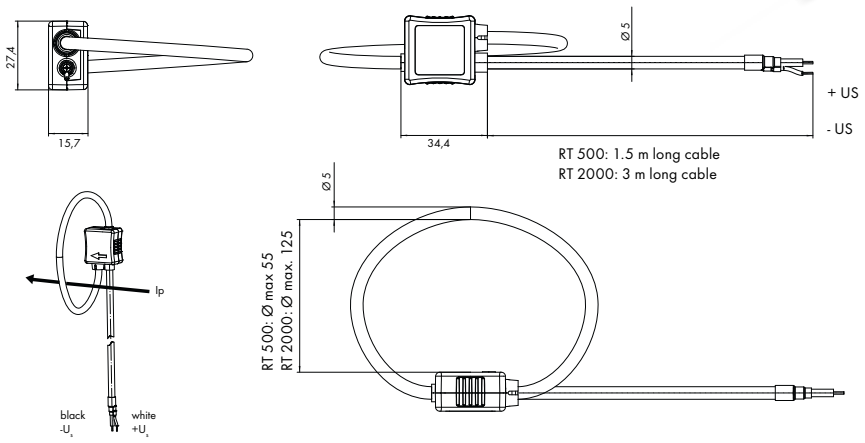
Dimensions:



ROGOWSKI COILS

855 Series

Function: The Rogowski coil is a closed-air coil with a non-magnetic split core. The coil is placed around a conductor or current bar. The magnetic field produced by the AC current flowing through the conductor induces an output voltage in the coil. This measurement procedure galvanically isolates the primary circuit (power) and secondary circuit (measurement).



Rogowski Coils — Time-Saving Installation

Item Number	EAN Number	Product Image	Input	Output	Description
855-9100/500-000	4050821579762		500 A	10.05 mV	RT 500, 1.5 m long cable
855-9300/500-000	4050821635734				RT 500, 3 m long cable
855-9100/2000-000	4050821579793		2000 A	40.2 mV	RT 2000, 1.5 m long cable
855-9300/2000-000	4050821635918				RT 2000, 3 m long cable

SIGNAL CONDITIONERS FOR ROGOWSKI COILS

CAGE CLAMP®

789 Series

WAGO's Rogowski Signal Conditioners record 5–2000 A alternating currents in a three-phase system. The magnetic field generated around each conductor is detected via three non-contact Rogowski coils and provided as a proportional voltage signal to the signal conditioner. These signal conditioners adjust the phase for each of the three voltage signals, converting them into 100 mA AC current signals, which are then transmitted to the 3-Phase Power Measurement Modules. Easy installation of Rogowski coils also allows existing systems to be retrofitted without process interruption.

Item Number	EAN Number	Product Image	Input Signal	Output signal	Overcurrent	Sensitivity
789-652	4050821407287		3 x RT 500 (500 A)	3 x 100 mA AC	750 A	10.05 mV; 50 Hz, sinusoidal
789-654	4050821750130		3 x RT 2000 (2000 A)		3000 A	40.2 mV; 50 Hz, sinusoidal

INTELLIGENT CURRENT SENSORS

789 Series

WAGO's intelligent current sensors monitor solar plants or inverters for DC measurements within a large current measurement range.

Item Number	789-620	789-621	789-622
EAN number	4045454967604	4050821204565	4050821374138
Product image			
Measurement range	0–80 ADC	0–140 ADC	0–50 A_{eff} AC
Transmission error	≤ 0.5 % of upper-range value		
Power supply	12–34 V (via RJ-45)		
Feedthrough	15 mm (for electrical lines)		
Interface	RS-485		
Protocol	MODBUS over serial line		
Addressing	1–32		
Max. bus length	≤ 1200 m		

JUMPFLEX® CURRENT SIGNAL CONDITIO

857 and 2857 Series

The 857-550 Current Signal Conditioner measures both 0–1 A and 0–5 A AC/DC currents, converting the input signal to an analog standard signal at the output (e.g., 4–20 mA).

The 857-552 Rogowski Signal Conditioner records RMS values from alternating currents via a Rogowski coil, converting the input signal into an analog standard signal at the output (e.g., 4–20 mA).

Item Number	**857-550**	**857-552**
EAN number	4050821226734	4050821476917
Input signal	0–1 A AC/DC 0–5 A AC/DC	Rogowski Coils 500 A/2000 A
Frequency range	16–400 Hz	16–1000 Hz
Output signal	Voltage: 0–5 V, 1–5 V, 0–10 V, 2–10 V Current: 0–10 mA, 2–10 mA, 0–20 mA, 4–20 mA	
Digital output (DO)	24 VDC/100 mA	
Load impedance	Current ≤ 600 Ω, Voltage ≥ 2000 Ω	Current ≤ 600 Ω, Voltage ≥ 1000 Ω
Supply voltage	24 VDC	

WAGO's 2857-550 Current Signal Conditioner measures, isolates and converts AC/DC currents in the process, sewage, power technology and mechanical engineering industries. These signal conditioners provide immunity to external interferences (e.g., differential signals, floating grounds or rise in potential for measurement signals), as well as overcurrent monitoring.

WAGO's signal conditioner is ideal for current measurement and overcurrent detection, while simultaneously isolating field signals to the central control system for further signal processing. Measured values can be optimally displayed and settings performed using WAGO's 2857-0900 Configuration Display.

Item Number	**2857-550**
EAN number	4050821676997
Input signal	100 A AC/DC
Frequency range	15–2000 Hz
Output signal	Current: ±10 mA; 0–10 mA; 2–10 mA; ±20 mA, 0–20 mA, 4–20 mA Voltage: ±5 V; 0–5 V; 1–5 V; ±10 V; 0–10 V; 2–10 V
Digital output	24 VDC/100 mA
Relay output	1 changeover contact (1 u) 250 VAC/6 A
Load impedance	Current < 600 Ω, Voltage > 1000 Ω
Nominal supply voltage	24 VDC

EPSITRON®

Advanced Power Supply System – High Performance Meets High Effici

EPSITRON® PRO Power

Single- and three-phase power supplies with a wide input voltage range and a 12 V, 24 V or 48 V output voltage. Features include PowerBoost, TopBoost and optional LineMonitor.

EPSITRON® CLASSIC Power

Single-phase power supplies with a wide input voltage range and a 12 V, 24 V or 48 V output voltage.

EPSITRON® ECO Power

Single-phase and three-phase power supplies with a wide input voltage range and a 24 V output voltage.

EPSITRON® COMPACT Power

Low-profile, single-phase power supplies with a wide input voltage range and a 15 V, 12 V, 18 V and 24 V output voltage.

ency

Additional components and accessories:

Electronic circuit breakers, UPS, capacitive buffer modules and redundancy modules round out the *EPSITRON*® Series.

The *EPSITRON*® Power Supply System from WAGO supports a whole range of applications with various devices.

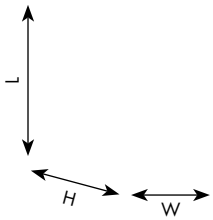
While the ECO Power Supplies handle economical standard supply with 24 V direct current, COMPACT Power Supplies are low-profile, decentralized power supplies with 5 V, 12 V and 24 V outputs.

CLASSIC Power Supplies provide different supply voltages (12 V, 24 V, and 48 V) from which users can choose. If power peaks are anticipated, the PRO Power Supplies with PowerBoost are the first choice – optional function monitoring and display simplify use.

Reliability and safeguarding the entire power supply against failure can be significantly increased by using electronic fuses, redundancy modules and buffer modules.

EPSITRON® PRO POWER

Technical Data



Item Number	787-819	787-821	787-831	787-818
EAN number	4050821226499	4050821226482	4050821226475	4045454998097
Nominal input voltage	1/2 x 100–240 VAC	1/2 x 100–240 VAC	1/2 x 110–240 VAC	1/2 x 100–240 VAC
Input voltage range (use of DC requires external protection)	85– 264 VAC; 120–350 VDC	85–264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC
Nominal output voltage, SELV	12 VDC	12 VDC	12 VDC	24 VDC
Output voltage range	11–18 VDC, adjustable	11–18 VDC, adjustable	11–18 VDC, adjustable	22–29.5 VDC, adjustable
Output current	6 A at 12 VDC	10 A at 12 VDC	15 A at 12 VDC	3 A at 24 VDC
PowerBoost	12 ADC (for 4 s) 9 ADC (for 8 s)	20 ADC (for 4 s) 15 ADC (for 8 s)	30 ADC (for 4 s) 22.5 ADC (for 8 s)	6 ADC (for 4 s) 4.5 ADC (for 8 s)
TopBoost	21 ADC (for 25 ms)	60 ADC (for 25 ms) 40 ADC at V_{IN} < 110 VAC (for 25 ms)	55 ADC (for 25 ms)	14 ADC (for 25 ms)
Parallel-/Series-connections possible	yes	yes	yes	yes
Efficiency	83 % typ.	87.8 % typ.	87 % typ.	87.8 % typ.
Operation status indicator	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)
LED indication	Green LED (Vo > 0.85 x 12 V) Red LED (Vo < 0.85 x 12 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 12 V) Red LED (Vo < 0.85 x 12 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 12 V) Red LED (Vo < 0.85 x 12 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 24 V) Red LED (Vo < 0.85 x 24 V) Relay contact DC OK (changeover contact)
Stand-by input	Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)
Ambient operating temperature	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail L = 127 mm without pluggable female connectors	40 x 163 x 163	57 x 163 x 163	57 x 179 x 163	40 x 163 x 163

Slim Design with Versatile Mounting Options

- Save up to 50 % more cabinet space
- Units can be mounted on DIN-rail horizontally or vertically
- Wall-mount adapter for screw mounting (option)

Clear and Easy to Connect

- CAGE CLAMP® connection technology – vibration-proof, fast, maintenance-free
- For solid, fine-stranded or ferruled conductors
- Colored and marked pluggable female connectors can be pre-assembled



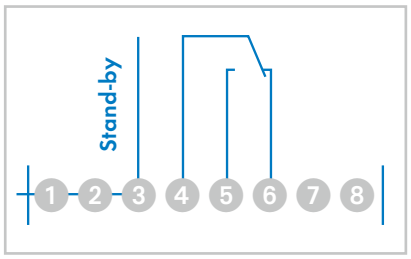


787-822	787-832	787-834	787-833	787-835
4045454993924	4045454993931	4050821085225	4050821226468	4050821226451
1/2 x 100–240 VAC	1/2 x 100–240 VAC	1/2 x 110–240 VAC	1/2 x 110–240 VAC	1/2 x 110–240 VAC
85– 264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC	85– 264 VAC; 120–350 VDC
24 VDC	24 VDC	24 VDC	48 VDC	48 VDC
22–29.5 VDC, adjustable	22–29.5 VDC, adjustable	22–29.5 VDC, adjustable	33–52 VDC, adjustable	33–52 VDC, adjustable
5 A at 24 VDC	10 A at 24 VDC	20 A at 24 VDC	5 A at 48 VDC	10 A at 48 VDC
10 ADC (for 4 s) 7.5 ADC (for 8 s)	20 ADC (for 4 s) 15 ADC (for 8 s)	30 ADC (for 4 s) 25 ADC (for 8 s)	10 ADC (for 4 s) 7.5 ADC (for 8 s)	17.5 ADC (for 4 s) 15 ADC (for 8 s)
21 ADC (for 25 ms)	60 ADC (for 25 ms)	80 ADC (for 25 ms)	30 ADC (for 25 ms)	60 ADC (for 25 ms)
yes	yes	yes	yes	yes
87.8 % typ.	90 % typ.	91 % typ.	91 % typ.	91 % typ.
Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)
Green LED (Vo > 0.85 x 24 V) Red LED (Vo < 0.85 x 24 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 24 V) Red LED (Vo < 0.85 x 24 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 24 V) Red LED (Vo < 0.85 x 24 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 48 V) Red LED (Vo < 0.85 x 48 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 0.85 x 48 V) Red LED (Vo < 0.85 x 48 V) Relay contact DC OK (changeover contact)
Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)
-25 °C ... +70 °C; Device starts at –40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C; Device starts at –40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested
57 x 163 x 163	57 x 179 x 163	97 x 187 x 171	57 x 163 x 163	97 x 187 x 171

Intuitive Communication

- LEDs clearly indicate status
- Green (DC OK), yellow* (warning), red (fault, overload)

*787-85x only



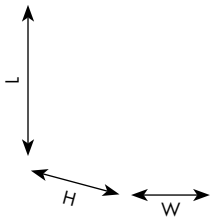
Potential-Free Contact/Stand-By Input

- Output voltage monitoring, message via potential-free changeover contact*
- Stand-by input* allows wear-free output deactivation via 10–28.8 VDC signal
- Energy-saving stand-by mode (max. 0.8 W power dissipation) is ideal for a temporarily decentralized power supply

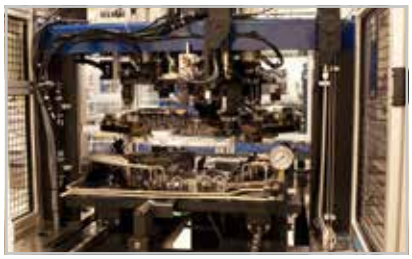
*Excludes 787-85x

EPSITRON® PRO POWER

Technical Data



Item Number	**787-840**	**787-842**	**787-844**
EAN number	4045454909949	4045454909932	4045454909925
Nominal input voltage	2/3 x 400–500 VAC	2/3 x 400–500 VAC	2/3 x 400–500 VAC
Input voltage range (use of DC requires external protection)	340– 550 VAC; 480–780 VDC	340– 550 VAC; 480–780 VDC	340– 550 VAC; 480– 780 VDC
Nominal output voltage, SELV	24 VDC	24 VDC	24 VDC
Output voltage range	22.8–28.8 VDC, adjustable	22.8–28.8 VDC, adjustable	22.8–28.8 VDC, adjustable
Output current	10 A at 24 VDC	20 A at 24 VDC	40 A at 24 VDC
PowerBoost	20 ADC (for 4 s) 15 ADC (for 16 s)	40 ADC (for 4 s) 30 ADC (for 16 s)	60 ADC (for 4 s) 50 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)	80 ADC (for 50 ms)	100 ADC (for 50 ms)
Parallel-/Series-connections possible	yes	yes	yes
Efficiency	91.7 % typ.	92.9 % typ.	93.6 % typ.
Operation status indicator	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)
LED indication	Green LED (Vo > 20.4 V) Red LED (Vo < 20.4 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 20.4 V) Red LED (Vo < 20.4 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 20.4 V) Red LED (Vo < 20.4 V) Relay contact DC OK (changeover contact)
LineMonitor, parameter setting and monitoring, active signal outputs, serial interface	–	–	–
Stand-by input	Switches output off (stand-by operation)	Switches output off (stand-by operation)	Switches output off (stand-by operation)
Ambient operating temperature	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C...+55 °C Device start at -40 °C type-tested
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail L =127 mm without pluggable female connectors	57 x 179 x 163	77 x 179 x 171	128 x 205 x 171



TopBoost

- Multiplies the nominal current for up to 50 ms
- Fast and reliable triggering of the secondary-side fusing via circuit breakers or fuses in the event of a short circuit or overload
- Fulfills EN 60204-1 grounding requirements in control circuits

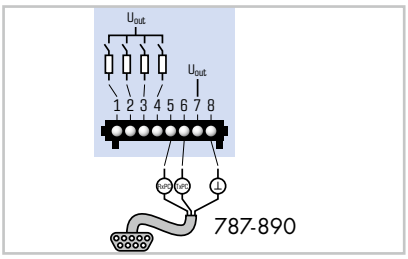
PowerBoost

- Provides 200 % of output power for four seconds
- Provides 150 % of output power for up to 16 seconds
- Advantageous during start-up or switching of capacitive loads (e.g., valve clusters, motors)
- Power reserve eliminates expensive oversizing





787-845	787-847	787-850	787-852	787-854
4050821226437	4050821226444	4045454909918	4045454909901	4045454909895
2/3 x 400–500 VAC	2/3 x 400–500 VAC	2/3 x 400–500 VAC	2/3 x 400–500 VAC	2/3 x 400–500 VAC
340–550 VAC; 480–780 VDC	340– 550 VAC; 480– 780 VDC	340– 550 VAC; 480–780 VDC	340–550 VAC, 480–780 VDC	340– 550 VAC; 480–780 VDC
48 VDC	48 VDC	24 VDC	24 VDC	24 VDC
39–53 VDC, adjustable	39–53 VDC, adjustable	22.8–28.8 VDC, adjustable	22.8–28.8 VDC, adjustable	22.8–28.8 VDC, adjustable
10 A at 48 VDC	20 A at 48 VDC	10 A at 24 VDC	20 A at 24 VDC	40 A at 24 VDC
15 ADC (for 4 s) 12.5 ADC (for 16 s)	30 ADC (for 4 s) 25 ADC (for 16 s)	20 ADC (for 4 s) 15 ADC (for 16 s)	40 ADC (for 4 s) 30 ADC (for 16 s)	60 ADC (for 4 s) 50 ADC (for 16 s)
55 ADC (for 50 ms)	80 ADC (for 50 ms)	70 ADC (for 50 ms)	80 ADC (for 50 ms)	100 ADC (for 50 ms)
yes	yes	yes	yes	yes
93 % typ.	94.4 % typ.	91.7 % typ.	92.9 % typ.	93.6 % typ.
Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)	Green LED (Vo), red LED (error)
Green LED (Vo > 36 V) Red LED (Vo < 36 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 36 V) Red LED (Vo < 36 V) Relay contact DC OK (changeover contact)	Green LED (Vo > 20.4 V) Yellow LED (warnings) Red LED (errors)	Green LED (Vo > 20.4 V) Yellow LED (warnings) Red LED (errors)	Green LED (Vo > 20.4 V) Yellow LED (warnings) Red LED (errors)
–	–	yes	yes	yes
Switches output off (stand-by operation)	Switches output off (stand-by operation)			
-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C...+55 °C Device start at -40 °C type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C ... +70 °C Device starts at -40 °C, type-tested	-25 °C...+55 °C Device start at -40 °C type-tested
77 x 179 x 171	128 x 205 x 171	57 x 179 x 163	77 x 179 x 171	128 x 205 x 171



Active Signal Contacts

- Four active signal outputs* for watchdog functions
- Each unit features a separate collective message for warning/fault
- Features two individually configurable signal outputs
- Free 759-850 Configuration Software can be downloaded at **www.wago.com**

*787-85x only

Innovative Communication

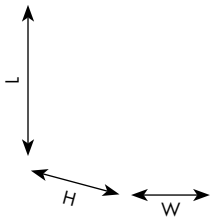
- LineMonitor* with display and function keys
- Variable monitoring, e.g., current, voltage, phase position, operating hours and more
- Output voltage and overload behavior can be parameterized
- Integrated fault memory

RS-232 Serial Interface

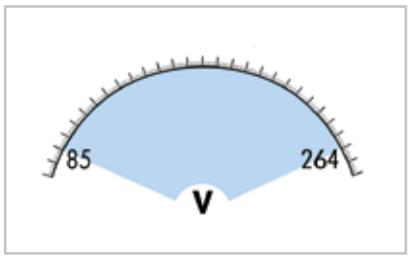
- Front-side integrated interface* communicates with a PC or PLC
- Free 759-850 Parameterization Software and 759-851 Visualization Software can be downloaded at **www.wago.com**
- Free function blocks are available for various PLC systems
- Serial 787-890 Communication Cable is available as an accessory

EPSITRON® CLASSIC POWER

Technical Data



Item Number	**787-1602**	**787-1606**	**787-1616**
EAN number	4055143060417	4055143060431	4055143060455
Nominal input voltage	100–240 VAC	100–240 VAC	100–240 VAC
Input voltage range	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC
Nominal output voltage, SELV	24 VDC	24 VDC	24 VDC
Nominal output voltage range	23–28.5 VDC	23–28.5 VDC	23–28.5 VDC
Output current	1 A	2 A	4 A
Integrated TopBoost	no	no	no
Efficiency	86 %	89 %	89 %
LED indication	Green LED (DC OK); active DC OK signal	Green LED (DC OK); active DC OK signal	Green LED (DC OK); active DC OK signal
Ambient operating temperature	-25 °C ... +70 °C Cold start at –40 °C, type-tested	-25 °C ... +70 °C Cold start at –40 °C, type-tested	-25 °C ... +70 °C Cold start at –40 °C, type-tested
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail	22.5 x 107.5 x 90	45 x 107.5 x 90	52 x 119 x 90



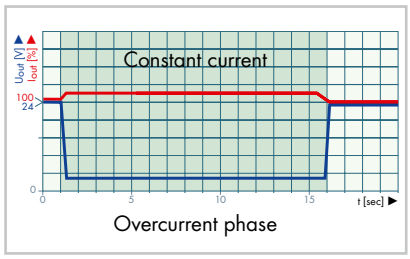
Slim Design

- Enclosure width has been reduced by up to 45 % compared to previous CLASSIC Power Supplies
- Save valuable cabinet space

Universal Supply

- Wide input voltage range: 85–264 VAC
- Can be connected worldwide to all standard single-phase power grids
- High operational reliability during power outages

787-1622	787-1632	787-1634	787-1616/0000-1000
4055143060486	4055143060516	4055143060530	4055143060462
100–240 VAC	100–240 VAC	100–240 VAC	100–240 VAC
85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC
24 VDC	24 VDC	24 VDC	24 VDC
23–28.5 VDC	23–28.5 VDC	23–28.5 VDC	23–28.5 VDC
5 A	10 A	20 A	3.8 A LPS / NEC Class 2
yes	yes	yes	no
89 %	91 %	92 %	87 %
Green LED (DC OK); DC OK signal	Green LED (DC OK); DC OK signal	Green LED (DC OK); DC OK signal	Green LED (DC OK); DC OK signal
-25 °C … +70 °C Cold start at –40 °C, type-tested	-25 °C … +70 °C Cold start at –40 °C, type-tested	-25 °C … +70 °C Cold start at –40 °C, type-tested	-25 °C … +70 °C Cold start at –40 °C, type-tested
42 x 137.5 x 127	55 x 172 x 127	95 x 170 x 127	52 x 119 x 90



Overcurrent phase

High Load-Carrying Capacity

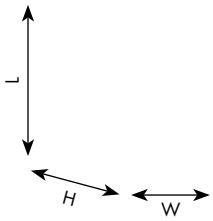
- Constant current characteristic under overload conditions
- 110 % output current with lowered output voltage – even during a short circuit
- Even high capacitive loads can be reliably started

Clear and Easy to Connect

- CAGE CLAMP® connection technology – vibration-proof, fast, maintenance-free
- For solid, fine-stranded or ferruled conductors
- Colored and marked female connectors can be pre-assembled – 100 % protected against mismating

EPSITRON® CLASSIC POWER

Technical Data



Item Number	787-1601	787-1611	787-1621
EAN number	4055143060400	4055143060448	4055143060479
Nominal input voltage	100–240 VAC	100–240 VAC	100–240 VAC
Input voltage range	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC
Nominal output voltage, SELV	12 VDC	12 VDC	12 VDC
Nominal output voltage range	11.5–14.5 VDC	11.5–14.5 VDC	11.5–14.5 VDC
Output current	2 A	4 A	7 A
Integrated TopBoost	no	no	no
Efficiency	82 %	86 %	86 %
LED indication	Green LED (DC OK); active DC OK signal	Green LED (DC OK); active DC OK signal	Green LED (DC OK); active DC OK signal
Ambient operating temperature	-25 °C ... +70 °C Cold start at -40 °C, type-tested	-25 °C ... +70 °C Cold start at -40 °C, type-tested	-25 °C ... +70 °C Cold start at -40 °C, type-tested
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail	22.5 x 107.5 x 90	45 x 107.5 x 90	52 x 119 x 90

Communicative

- Green LED indicates output voltage availability
- Remote monitoring via DC OK signal or isolated DC OK contact
- Easy commissioning and maintenance
- Provides fast information on a system or machine status

Adjustable

- Front-panel adjustable output voltage
- Up to 20 % greater output voltage
- Easily compensate for voltage drops over long lines

787-1631	787-1623	787-1633	787-1635
4055143060509	4055143060493	4055143060523	4055143060547
100–240 VAC	100–240 VAC	100–240 VAC	100–240 VAC
85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC	85–264 VAC; 120–372 VDC
12 VDC	48 VDC	48 VDC	48 VDC
11.5–15 VDC	40–56 VDC	40–56 VDC	40–56 VDC
15 A	2 A	5 A	10 A
yes	no	yes	yes
90 %	86 %	92 %	93 %
Green LED (DC OK); active DC OK signal	Green LED (DC OK); active DC OK signal	Green LED (DC OK); DC OK signal	Green LED (DC OK); DC OK signal
-25 °C … +70 °C Cold start at -40 °C, type-tested	-25 °C … +70 °C Cold start at -40 °C, type-tested	-25 °C … +70 °C Cold start at -40 °C, type-tested	-25 °C … +70 °C Cold start at -40 °C, type-tested
55 x 172 x 127	52 x 119 x 90	55 x 172 x 127	95 x 170 x 127

Device Marking

- Marking field for fast and securely attached device identification
- Supports WAGO WMB Multi Marking System, 5 mm pin spacing
- Supports 11 mm wide marking strips

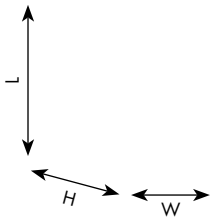
Integrated TopBoost*

- Multiplies the nominal current
- Fast and reliable triggering of the secondary-side fusing via circuit breakers or fuses during a short circuit or overload

*with 787-1622, -1631, -1632, -1633, -1634, -1635

EPSITRON® ECO POWER

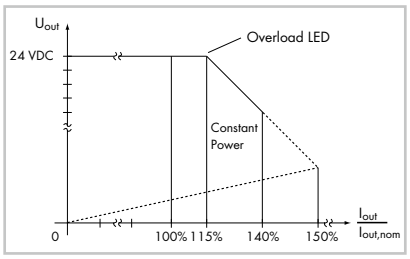
Technical Data



Item Number	**787-712**	**787-722**	**787-732**	**787-734**
EAN number	4045454908195	4045454908188	4045454908140	4050821495291
Nominal input voltage	110–240 VAC	110–240 VAC	110–240 VAC	110–240 VAC
Input voltage range	85– 264 VAC; 130– 373 VDC	85– 264 VAC; 130– 373 VDC	85– 264 VAC; 130– 373 VDC	85– 264 VAC; 130– 373 VDC
Nominal output voltage, SELV	24 VDC	24 VDC	24 VDC	24 VDC
Output voltage range	22–28 VDC	22–28 VDC	22–28 VDC	22–28 VDC
Output current	2.5 A	5 A	10 A	20 A
Nominal output	60 W	220 W	240 W	480 W
Efficiency (230 VAC, nominal load)	86 % typ.	86 % typ.	86 % typ.	90 % typ.
LED indication	Green LED (DC OK) Red LED (overload)	Green LED (DC OK) Red LED (overload)	Green LED (DC OK) Red LED (overload)	Green LED (DC OK), red LED (overload), signal contact (DC OK, make contact)
Ambient operating temperature	-10 °C ... +70 °C	-10 °C ... +60 °C	-10 °C ... +70 °C	-25 °C ... +70 °C
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail	50 x 92 x 130	75 x 92 x 130	110 x 92 x 130	115 x 144 x 136

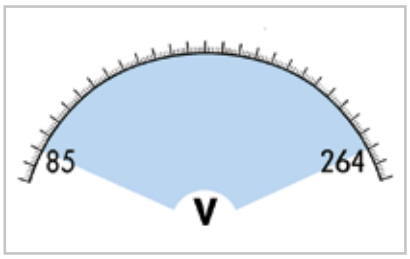
Clear Indication

- Green LED indicates output voltage availability
- Red LED indicates an overcurrent or short circuit
- Easy commissioning and maintenance



High Load-Carrying Capacity

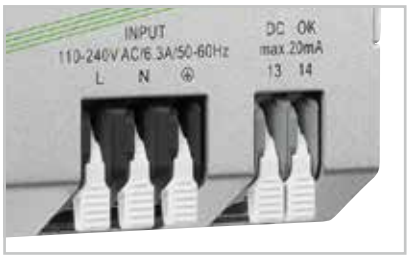
- Overload warning from 1.15 times the nominal output current
- Overload of up to 1.4 times the nominal current with lowered output voltage (constant power)
- Output shutdown in case of a low-resistance short circuit; also includes automatic restart



Universal Supply

- Wide input voltage range: 85–264 VAC (single-phase) or 325–575 VAC (two- and three-phase)
- Efficiently operates on different power grids – no need for additional conversion or adjustment
- High tolerance of voltage fluctuations within a power grid
- High level of operational reliability

787-736	787-738	787-740	787-742
4050821748250	4050821847861	4050821848370	4050821848387
110–240 VAC	3x (2x) 400–500 VAC	3x (2x) 400–500 VAC	3x (2x) 400–500 VAC
85– 264 VAC; 130– 373 VDC	325–575 VAC; 460– 800 VDC	325–575 VAC; 460– 800 VDC	325–575 VAC; 460– 800 VDC
24 VDC	24 VDC	24 VDC	24 VDC
22–28 VDC	22–28 VDC	22–28 VDC	22–28 VDC
40 A	6.25 A	10 A	20 A
960 W	150 W	300 W	500 W
90 % typ.	87 % typ.	89 % typ.	90 % typ.
Green LED (DC OK), red LED (overload), signal contact (DC OK, make contact)	Green LED (DC OK), red LED (overload), signal contact (DC OK, make contact)	Green LED (DC OK), red LED (overload), signal contact (DC OK, make contact)	Green LED (DC OK), red LED (overload), signal contact (DC OK, make contact)
-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
170 x 154 x 136	50 x 92 x 136	65 x 130 x 136	110 x 130 x 136



Fast Wiring

- PCB terminal strips with integrated operating levers (2706 or 2716 Series)*
- Convenient, tool-free wiring
- Integrated test slot simplifies testing by eliminating conductor removal

Status Monitoring

- Isolated make contact*
- Indicates whether an output voltage or an overload is present
- Ideal for remote monitoring

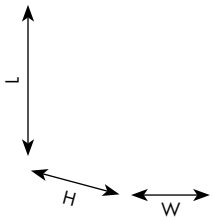
Easy Grounding

- Integrated third negative terminal strip on the output side*
- Direct connection to the reference ground, which is frequently used in mechanical engineering applications

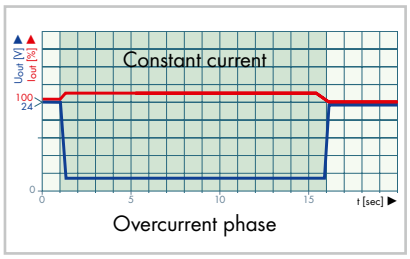
*for 787-734 and 787-736 and three-phase power supplies

EPSITRON® COMPACT POWER

Technical Data



Item Number	787-1001	787-1011	787-1021	787-1017
EAN number	4050821298236	4050821297604	4050821498018	4050821595731
Nominal input voltage	100–240 VAC	100–240 VAC	100–240 VAC	100–240 VAC
Input voltage range	85–264 VAC; 120–373 VDC	85–264 VAC; 120–373 VDC	85–264 VAC; 120–373 VDC	85–264 VAC; 120–373 VDC
Nominal output voltage, SELV	12 VDC	12 VDC	12 VDC	18 VDC
Output voltage range	10.8–18 VDC, adjustable	10.5– 15.5 VDC, adjustable	10.5– 15.5 VDC, adjustable	15–28 VDC, adjustable
Output current	2 A at 12 VDC / 0.75 A at 18 VDC	4 A at 12 VDC	6.5 A at 12 VDC	2.5 A at 18 VDC /2.3 A at 24 VDC; max. 55 W
Output current for overhead mounting	max. 1.4 A at 12 VDC	max. 2.4 A	max. 4 A	max. 1.6 A
Default setting	12 VDC	12 VDC	12 VDC	18 VDC
Overload behavior	Constant current, 1.1 x Io typ.	Constant current, 1.1 x Io typ.	Constant current, 1.1 x Io typ.	Constant current, 1.1 x Io typ.
Operation status indicator	Green LED (V_o)	Green LED (V_o)	Green LED (V_o)	Green LED (V_o)
Efficiency	80 % typ.	85 % typ.	87 % typ.	83 % typ. at 18 VDC / 2.5 A 85 % typ. at 24 VDC / 2.3 A
Ambient operating temperature**	-25 … +60 °C Cold start at -40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested
Dimensions (mm) W x H x L	54 x 55 x 89	72 x 55 x 89	90 x 55 x 89	90 x 55 x 89



Clear Indication

- Status indication via green LED
- Current operating status can be displayed quickly

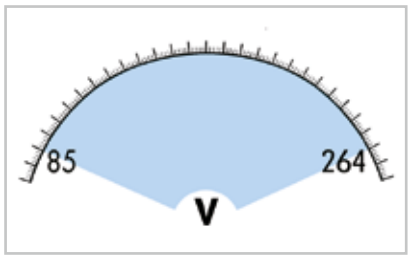
Minimum Size, Maximum Performance

- Constant current characteristic under overload conditions
- 110 % output current with lowered output voltage – even during a short circuit
- High capacitive loads can be reliably started (e.g., distributed control units or HMI devices)





787-1002	787-1012	787-1022	787-1014	787-1020
4050821298229	4050821297598	4050821297581	4050821819714	4055143098816
100–240 VAC	100–240 VAC	100–240 VAC	110 VDC	100–240 VAC
85–264 VAC; 120–373 VDC	85–264 VAC; 120–373 VDC	85–264 VAC; 120–373 VDC	77–140 VDC	85–264 VAC; 120–373 VDC
24 VDC	24 VDC	24 VDC	24 VDC	5 VDC
22.8–26.4 VDC, adjustable	22.8–26.4 VDC, adjustable	22.8–26.4 VDC, adjustable		4.5–8.5 VDC, adjustable
1.3 A at 24 VDC	2.5 A at 24 VDC	4 A at 24 VDC	2.0 A at 24 VDC	5.5 A at 5 VDC
max. 0.9 A	max. 1.6 A	max. 2.4 A	max. 1.6 A	max. 3.5 A
24 VDC	24 VDC	24 VDC	24 VDC	5 VDC
Constant current, 1.1 x Io typ.	Constant current, 1.1 x Io typ.	Constant current, 1.1 x Io typ.	Constant current	Constant current
Green LED (V_o)	Green LED (V_o)	Green LED (V_o)	Green LED (V_o)	Green LED (V_o)
82 % typ.	88 % typ.	88 % typ.	85 % typ.	75 % typ.
-25 … +60 °C Cold start at -40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested	-40 … +70 °C Cold start at –40 °C, type-tested	-25 … +60 °C Cold start at -40 °C, type-tested
54 x 55 x 89	72 x 55 x 89	90 x 55 x 89	72 x 55 x 89	72 x 55 x 89



Universal Supply

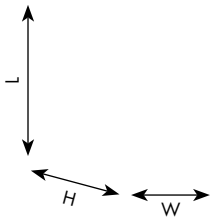
- Wide input voltage range: 85–264 VAC (single-phase)
- Efficiently operates on different power grids – no need for additional conversion or adjustment
- High tolerance of voltage fluctuations within a power grid ensures a high level of operational reliability

Overhead Mounting

- Any type of mounting position is possible with reduced output power
- Units can even be mounted overhead (e.g., in system distribution boxes under the ceiling)

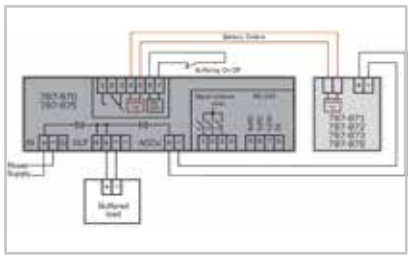
EPSITRON® UNINTERRUPTIBLE POWER SU

Technical Data



Item Number	787-870	787-875	787-876
EAN number	4045454909857	4045454993917	4050821298243
Description	UPS Charger and Controller	UPS Charger and Controller	Lead-Acid AGM Battery Module
Nominal input voltage	24 VDC	24 VDC	24 VDC
Input current I_r	0.1 A (no load running); 0.8 A (charging); 10.8 A (max.)	0.1 A (no load running); 1.5 A (charging); 21.5 A (max.)	max. 0.3 A
Switch-on threshold (adjustable)	20–25.5 VDC	20–25.5 VDC	
Output voltage range	V_i – 1 VDC (below switch-on threshold); Battery voltage – 1 VDC (buffer mode)	V_i – 1 VDC (below switch-on threshold); Battery voltage – 1 VDC (buffer mode)	24 VDC
Output current I_o	10 A	20 A	max. 7.5 A
Buffer time/capacity	10–600 s, IPC mode or constant (adjustable)	10–600 s, IPC mode or constant (adjustable)	1.2 Ah
End-of-charge voltage	26–29.5 VDC or temperature-controlled (adjustable)	26–29.5 VDC or temperature-controlled (adjustable)	27 VDC (at 25 °C)
LED indication	LED, LCD, 3 signal outputs 24 VDC, 25 mA and 1 isolated relay contact	LCD, 3 signal outputs 24 VDC, 25 mA and 1 isolated relay contact	NTC K164 temperature sensor (4.7 kOhm), battery control
Interface	RS-232 (optional accessories: 787-890 Communication Cable)	RS-232 (optional accessories: 787-890 Communication Cable)	
Remote input	Switches buffer mode off	Switches buffer mode off	
Ambient operating temperature	-10 °C ... +60 °C	-10 °C ... +60 °C	-10 °C ... +40 °C
Dimensions (mm) W x H x L Height from upper-edge of DIN-rail	40 x 163 x 163	57 x 163 x 171	55 x 126.5 x 153

*L = 127 mm, without pluggable female connectors (787-870 and 787-875 only)



EPSITRON® Battery Control Technology

- Allows continuous data exchange between intelligent battery modules (787-87x) and a UPS charger/controller.
- Automatically detects a connected battery module (787-87x)
- Maximum battery life via temperature-controlled battery management
- Reliable, early warning of decreasing battery life
- Determines battery life expectancy based on the ambient operating temperature
- Displays current charging status on site (787-870 and 787-875)

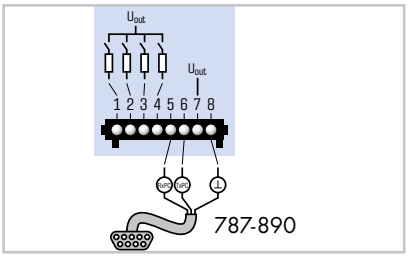
Diagnostics, Monitoring, Configuration

- LEDs display operating status, warnings and errors
- Signal outputs can be processed as a digital signal in a PLC
- Potential-free signal contacts
- Parameter setting via on-unit buttons or rotary switch
- Visualization or configuration via RS-232 serial interface

PPLY (UPS)

CAGE CLAMP®

787-871	787-872	787-873	787-1675
4045454916626	4045454909840	4045454993900	4050821502616
Lead-Acid AGM Battery Module	Lead-Acid AGM Battery Module	Lead-Acid AGM Battery Module	1-Phase Power Supply with Integrated UPS Charger and Controller
24 VDC	24 VDC	24 VDC	100–240 VAC
max. 0.8 A	max. 1.8 A	max. 3 A	1.1 AAC at 230 VAC and 5 ADC
			22 VDC (pre-configured), 20–25.5 VDC (configurable via software)
24 VDC	24 VDC	24 VDC	23.0–28.5 VDC (mains operation) 18.5–27.5 VDC (battery operation)
20 A	max. 40 A	max. 40 A	5 A
3.2 Ah	7 Ah	12 Ah	0.5 s to 20 min, IPC mode or constant (adjustable)
27 VDC (at 25 °C)	27 VDC (at 25 °C)	27 VDC (at 25 °C)	26–29.5 VDC temperature-controlled (fixed or adjustable)
NTC K164 temperature sensor (4.7 kOhm), battery control	NTC K164 temperature sensor (4.7 kOhm), battery control	NTC K164 temperature sensor (4.7 kOhm), battery control	3 x 24 VDC signal output, 25 mA
			RS-232 (optional accessories: 787-892 Communication Cable)
			Switches buffer mode off
-10 °C ... +40 °C	-10 °C ... +40 °C	-10 °C ... +40 °C	-25 °C ... +70 °C
76.2 x 175.5 x 168	86 x 217.5 x 236	120.5 x 217.5 x 236	60 x 135.5 x 127



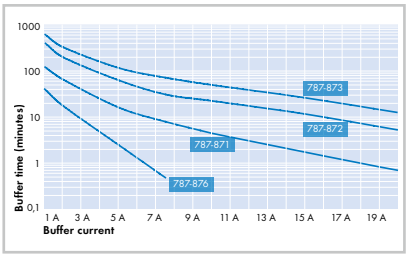
RS-232 Serial Interface

- Free download* of 759-870 Configuration and Visualization Software
- Free download of function blocks for visualization on standard PLC systems
- 787-890 or -892 Serial Communication Cable available as an accessory

*www.wago.com/epsitron

Display with Charge Level Indication

- Indicates actual current and voltage values
- Bar graph displays the charge level of connected batteries
- Integrated fault memory

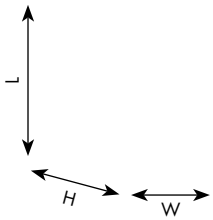


Buffer Time

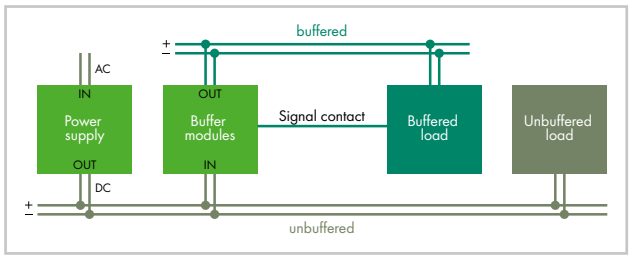
- Based on battery capacity and discharge current
- Four battery modules are available with capacities from 1.2 Ah to 12 Ah
- Parallel connection of up to three battery modules of the same type increases buffer time

EPSITRON® — CAPACITIVE BUFFER AND

Technical Data



Item Number	787-880	787-881
EAN number	4045454909833	4045454909826
Description	Capacitive Buffer Module	Capacitive Buffer Module
Nominal input voltage V_i	24 VDC	24 VDC
Input current I_i	60 mA (no load running); 1 A (charging); 11 A (max.)	60 mA (no load running); 1 A (charging); 22 A (max.)
Charging time	approx. 5 minutes	approx. 5 minutes
Switch-on threshold (adjustable)	20–24 VDC	20–24 VDC
Output voltage range	Vi – 1 VDC (below switch-on threshold); 20.4–24 VDC (buffer mode)	Vi – 1 VDC (below switch-on threshold); 20.4–24 VDC (buffer mode)
Output current I_o	10 A	20 A
Buffer time	0.06–7.2 s (according to load current and switch-on threshold)	0.17–16.5 s (according to load current and switch-on threshold)
Parallel-connections possible	yes	yes
LED indication	LED; isolated relay contact	LED; isolated relay contact
Ambient operating temperature	-10 °C–+50 °C	-10 °C–+50 °C
Dimensions (mm) W x H x L H from upper-edge of DIN-rail; L=127mm, without pluggable female connectors	57 x 179 x 163	57 x 179 x 181



Decoupled Output

- Integrated diode
- Buffered and unbuffered loads can be decoupled
- Multiple buffer modules can be parallel-connected to increase buffer time or load current

LED Indication

- Three LEDs (green/yellow/red) indicate the current operating status
- The isolated signal contact indicates the charge level

REDUNDANCY MODULES

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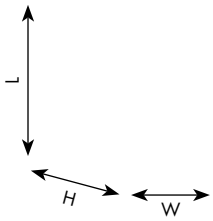
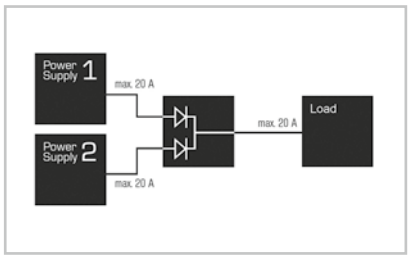


Item Number	787-885	787-886	787-783	787-785
EAN number	4045454909802	4050821262725	4055143036290	4055143036306
Description	Redundancy Module	Redundancy Module		
Nominal input voltage V_i	2 x 24 VDC	2 x 48 VDC	2 x 24 VDC (9–54 VDC)	2 x 24 VDC (9–54 VDC)
Input current I_i	2 x 20 A, together max. 1 x 40 A	2 x 20 A, together max. 1 x 40 A	2 x max. 12.5 A	2 x max. 40 ADC
Nominal output voltage $V_{o\,nom}$	24 VDC	48 VDC	2 x 9–54 VDC	2 x 9–54 VDC
Output current I_o	20 A, max. 40 A	20 A, max. 40 A	max. 12.5 A as redundancy module, max. 25 A in parallel operation	max. 40 A as redundancy module, max. 76 A in parallel operation
Efficiency	97 % typ.	96 % typ.	96 %	97 %
Power loss P_v	1.5 W (no load)/ 14 W (rated load 20 A)/ 26 W (rated load 40 A)	1.7 W (no load)/ 20 W (rated load 20 A)/ 40 W (rated load 40 A)	12.5 W at nominal load	30 W at nominal load
LED indication	LED; isolated relay contact	LED; isolated relay contact	2 x green LED (input); 1 x green LED (output)	2 x green LED (input); 1 x green LED (output)
Ambient operating temperature	-10 °C … +60 °C	-10 °C … +60 °C	-25 °C … +70 °C	-25 °C … +70 °C
Dimensions (mm) W x H x L	40 x 163 x 181	40 x 163 x 181	50 x 92 x 130	83 x 150 x 130

LED Indication

- Three LEDs indicate the presence of an input or output voltage
- Optional isolated signal contact indicates a power outage at the input

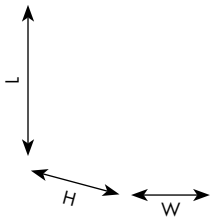
*787-885 and -886 only



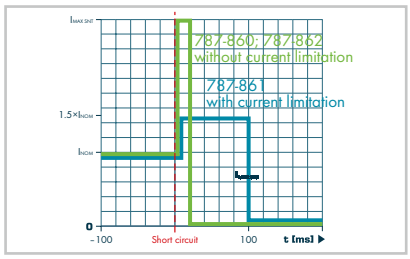
High Overload Capability

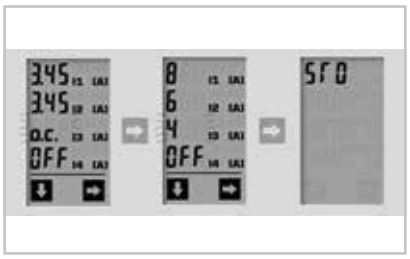
- Power diodes in each input path feature a high overload capability and are also suitable for power supplies with TopBoost or PowerBoost
- Bridging the input paths permits output currents up to 76 A

EPSITRON® – ELECTRONIC CIRCUIT BREA



Item Number	787-860	787-862	787-861
EAN number	4045454909888	4045454909864	4045454909871
Description	Electronic Circuit Breaker	Electronic Circuit Breaker	Electronic Circuit Breaker with Active Current Limitation
Nominal input voltage	24 VDC	24 VDC	24 VDC
Nominal output voltage	4 x 24 VDC	4 x 24 VDC	4 x 24 VDC
Nominal current	4 x 1–6 ADC (each channel adjustable in 1 A increments)	4 x 1–10 ADC (adjustable for each channel in 1 A steps)	4 x 1–8 ADC (each channel adjustable in 1 A increments)
Trip time	100 s (100 ms to 600 s; adjustable)	100 s (100 ms to 600 s; adjustable)	100 ms (100 ms to 1.5 s; adjustable depending on nominal current)
Switch-on capacity	max. 20,000 µF per channel	max. 20,000 µF per channel	max. 20,000 µF per channel
Switch-on behavior	Time-delayed channel switching (250 ms each)	Time-delayed channel switching (250 ms each)	Time-delayed channel switching (250 ms each)
LED indication	LED, LCD, 4 x signal output 24 VDC, 25 mA and 1 x isolated relay contact 60 VDC, 3 A	LED, LCD, 4 x signal output 24 VDC, 25 mA and 1 x isolated relay contact 60 VDC, 3 A	LED, LC display, 4 x signal output 24 VDC, 25 mA
Remote control input	yes	yes	no
Short-circuit current limitation	-/-	-/-	1.5 x nominal current typ.
Ambient operating temperature	–10 °C ... +60 °C	-10 °C ... +60 °C	-10 °C ... +60 °C
Dimensions (mm) W x H x L	40 x 163 x 171	40 x 163 x 171	40 x 163 x 171





Trip Characteristics

- Reliable and precise disconnection in case of an overcurrent or short circuit
- Nominal currents can be set separately for each channel in 1 A increments
- Tripping time can be configured in defined increments
- Optionally, active short-circuit current limitation* to 1.5 times the set rated current prevents a voltage drop in other current paths

Switching and Acknowledging

- Activate tripped channels and switch channels with the click of a button
- Activate tripped channels via RS-232 interface
- Optional activation of all tripped channels via an impulse at the remote control input**

LED Indication

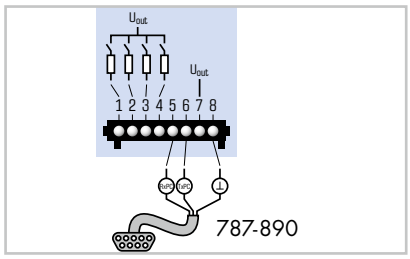
- Three LEDs (green/yellow/red) to easily monitor various operating conditions
- Display shows actual current and voltage levels, as well as status messages in several views
- Integrated fault memory for quick diagnostics
- Four active signal outputs
- RS-232 serial interface permits fault diagnostics on a PC or PLC
- Potential-free contact**

*787-861 only **787-860 and -862 only

KERS (ECBs)

CAGE CLAMP®

787-1662	787-1662/0106-0000	787-1662/0006-1000
4050821848349	4050821848356	4050821848325
Electronic Circuit Breaker	Electronic Circuit Breaker	Electronic Circuit Breaker with Active Current Limitation
24 VDC	24 VDC	24 VDC
2 x 24 VDC	2 x 24 VDC	2 x 24 VDC
2 x 2, 3, 4, 6, 8, 10 ADC (adjustable, channel-by-channel via rotary switch)	2 x 1, 2, 3, 4, 5, 6 ADC (adjustable, channel-by-channel via rotary switch)	2 x 0.5, 1, 2, 3, 4, 6 ADC (adjustable, channel-by-channel via rotary switch)
Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)
> 50,000 µF per channel	> 50,000 µF per channel	> 65,000 µF per channel
Time-delayed channel switching (load-dependent, 50 ms to 5 s)	Time-delayed channel switching (load-dependent, 50 ms to 5 s)	Time-delayed channel switching (load-dependent, 50 ms to 5 s)
2 x LED (green/red/orange), 2 x signal output	2 x LED (green/red/orange), 2 x signal output	2 x LED (green/red/orange), 2 x signal output
yes	yes	yes
-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
45 x 115.5 x 90	45 x 115.5 x 90	45 x 115.5 x 90



Configuration Options

- Display and function keys for direct, on-site parameterization
- RS-232 serial interface permits advanced parameterization via PC; free 759-860 Configuration Software available at: www.wago.com/epsitron
- Free download of function blocks for visualization on standard PLC systems

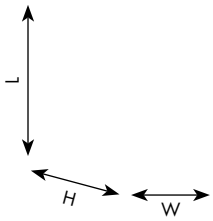
Pluggable CAGE CLAMP® Connection Technology

- Fast, vibration-proof, maintenance-free
- For solid, fine-stranded or ferruled conductors
- 100 % protected against mismating
- Color-coded and marked

Markers

- Device identification via WMB markers or TOPJOB® S marking strips
- Label individual channels via marking strips that can be inserted into the rotary switch covers from the outside

EPSITRON® – ELECTRONIC CIRCUIT BREA



Item Number	787-1664	787-1664/0106-0000	787-1664/0006-1000
EAN number	4050821502609	4050821848295	4050821848318
Description	Electronic Circuit Breaker	Electronic Circuit Breaker	Electronic Circuit Breaker with Active Curren Limitation
Nominal input voltage	24 VDC	24 VDC	24 VDC
Nominal output voltage	4 x 24 VDC	4 x 24 VDC	4 x 24 VDC
Nominal current	4 x 2, 3, 4, 6, 8, 10 ADC (adjustable, channel-by-channel via rotary switch)	4 x 1, 2, 3, 4, 5, 6 ADC (adjustable, channel-by-channel via rotary switch)	4 x 0.5, 1, 2, 3, 4, 6 ADC (adjustable, channel-by-channel via rotary switch)
Trip time	Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)
Switch-on capacity	> 50,000 µF per channel	> 50,000 µF per channel	> 65,000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent min. 50 ms to 5 s)	Time-delayed channel switching (load-dependent min. 50 ms to 5 s)	Time-delayed channel switching (load-dependent min. 50 ms to 5 s)
LED indication	4 x LED (green/red/orange), 2 x signal output	4 x LED (green/red/orange), 2 x signal output	4 x LED (green/red/orange), 2 x signal output
Remote control input	yes	yes	yes
Ambient operating temperature	-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
Dimensions (mm) W x H x L	45 x 115.5 x 90	45 x 115.5 x 90	45 x 115.5 x 90

Intuitive Communication

- Each output channel has backlit buttons for switching on/off, as well as acknowledgement
- Integrated, multi-color LEDs indicate the operating status of each channel

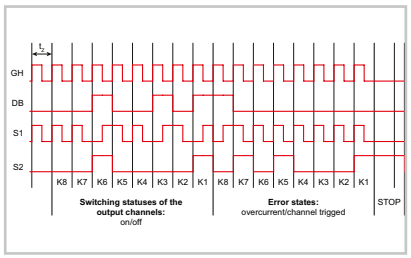
Rotary Switch

- Nominal current can be individually adjusted for each channel
- The setting is visible even when no voltage is applied
- Transparent cover can be sealed and marked

KERS (ECBs)

CAGE CLAMP®

787-1668	787-1668/0106-0000	787-1668/0006-1000
4050821502593	4050821848363	4050821848332
Electronic Circuit Breaker	Electronic Circuit Breaker	Electronic Circuit Breaker with Active Current Limitation
24 VDC	24 VDC	24 VDC
8 x 24 VDC	8 x 24 VDC	8 x 24 VDC
8 x 2, 3, 4, 6, 8, 10 ADC (adjustable, channel-by-channel via rotary switch)	8 x 1, 2, 3, 4, 5, 6 ADC (adjustable, channel-by-channel via rotary switch)	8 x 0.5, 1, 2, 3, 4, 6 ADC (adjustable, channel-by-channel via rotary switch)
Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)	Load-dependent (16 ms to 100 s)
> 50,000 µF per channel	> 50,000 µF per channel	> 65,000 µF per channel
Time-delayed channel switching (load-dependent min. 50 ms to 5 s)	Time-delayed channel switching (load-dependent min. 50 ms to 5 s)	Time-delayed channel switching (load-dependent min. 50 ms to 5 s)
8 x LED (green/red/orange), 2 x signal output	8 x LED (green/red/orange), 2 x signal output	8 x LED (green/red/orange), 2 x signal output
yes	yes	yes
-25 °C ... +70 °C	-25 °C ... +70 °C	-25 °C ... +70 °C
42 x 142.5 x 127	42 x 142.5 x 127	42 x 142.5 x 127



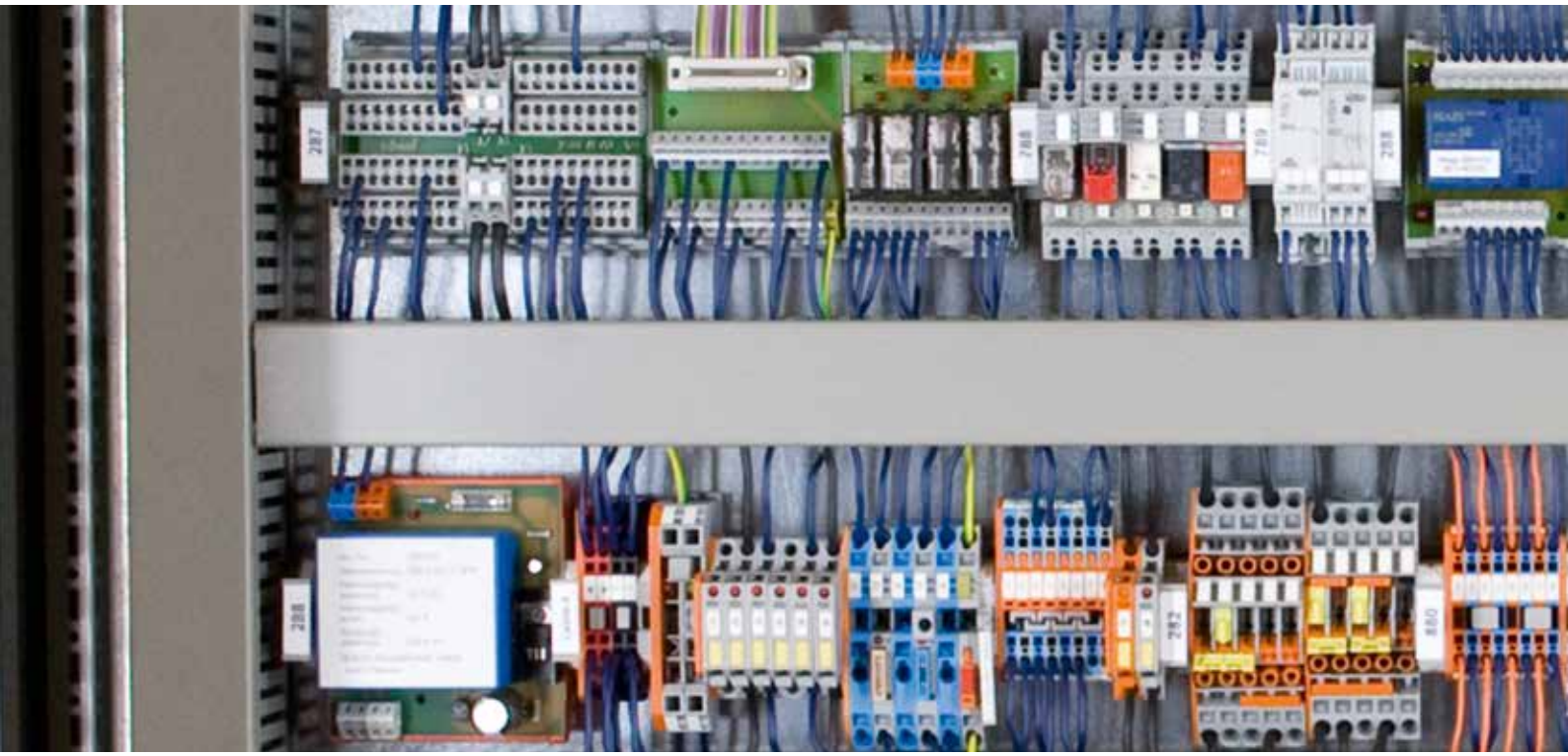
Communication 1.0

- Remote digital input S1 resets all tripped channels
- Digital output S3 transmits a simple group message indicating if one of the channels was triggered by an overcurrent

Communication 2.0

- Remote digital input S1 switches on and off certain channels via pulse sequence
- Digital output S2 transmits the current status (on/off/tripped/overcurrent) of each individual channel
- Optional transmission of input voltage and output/ nominal current value for each channel

RELAYS AND OPTOCOUPLERS



788 Series

Sockets with a Miniature Switching Relay or a Solid-State Relay

858 Series

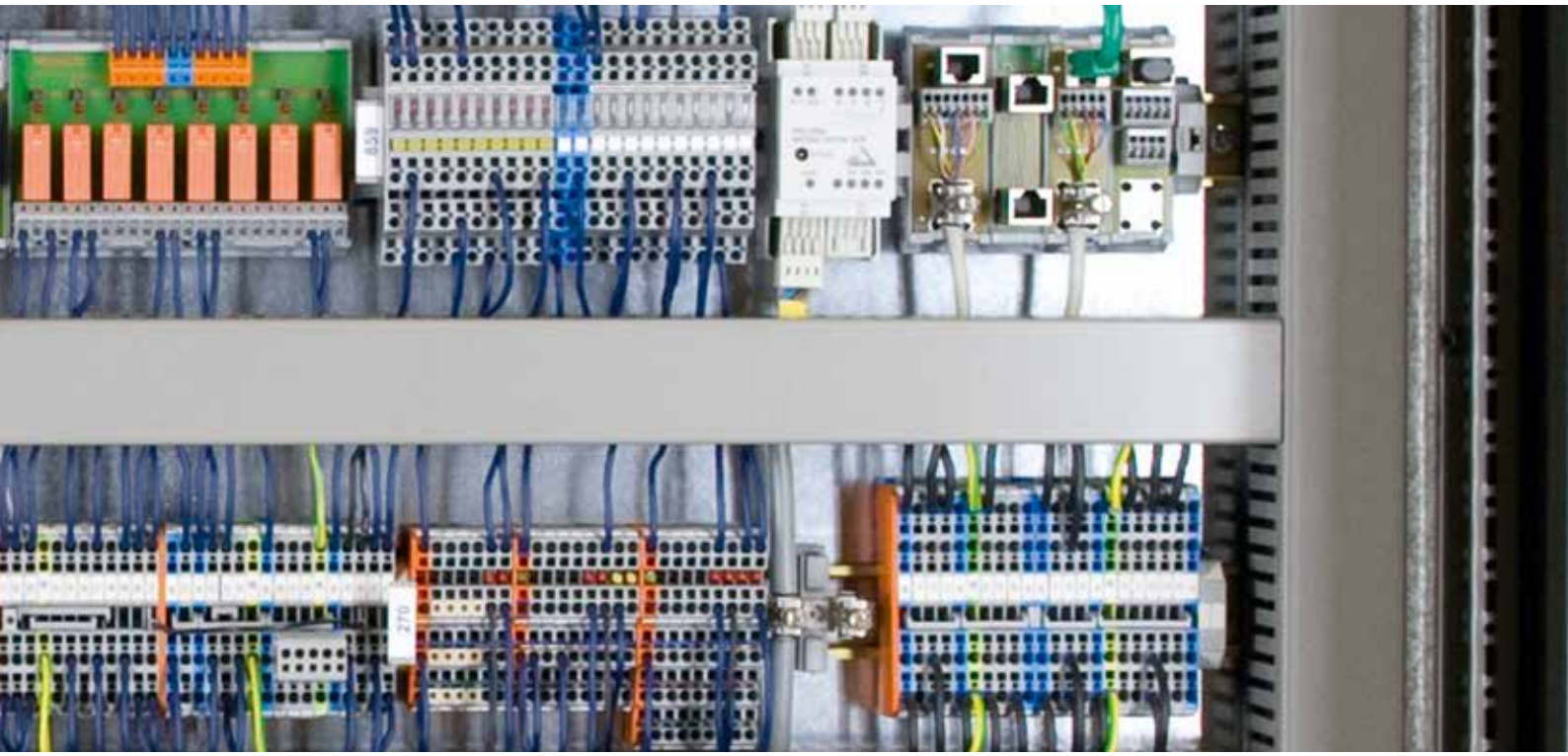
Sockets with a Miniature Switching Relay

789 Series

Relay Modules in a DIN-Rail-Mount Enclosure

859 Series

Rail-Mounted Terminal Blocks with a Miniature Switching Relay or an Optocoupler



857 Series

- Sockets with a Miniature Switching Relay or a Solid-State Relay
- Timer Relays
- Relays with a wide input voltage range

WAGO Relay Modules

In modern automation systems, electromechanical relays safely connect process peripherals with electronic control, alarm and monitoring systems. Depending on the application and its requirements, there is a choice of relay modules with different rated voltages, contacts, contact materials, housings and designs.

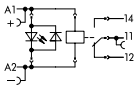
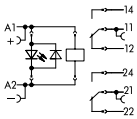
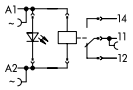
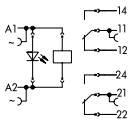
In addition to standard switching relays, other relay models are available including bistable, timer, latching and safety relays with force-guided contacts.

WAGO Optocouplers

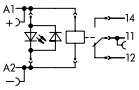
Optocouplers connect process peripherals with electronic control, alarm and monitoring systems. WAGO offers a complete optocoupler portfolio for all interface types between control and load circuits. Optocouplers are available with different nominal voltages, switching capacities and housing options to suit any application.

788 SERIES

Sockets with a Miniature Switching Relay

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **1 changeover contact** and status indication (15 mm tall)			**788-304**	4045454351991	24 VDC	250 VAC	16 A
Relay with **2 changeover contacts** and status indication (15 mm tall)			**788-312**	4045454352035	24 VDC	250 VAC	2 x 8 A
Relay with **1 changeover contact** and status indication (15 mm tall)			**788-508**	4045454484699	230 VAC	250 VAC	16 A
Relay with **2 changeover contacts** and status indication (15 mm tall)			**788-516**	4045454484750	230 VAC	250 VAC	2 x 8 A

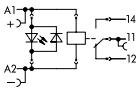
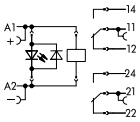
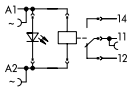
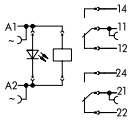
Socket with a Miniature Switching Relay for Lamp Loads

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay for lamp loads with **1 changeover contact** and status indication (15 mm tall)			**788-354**	4045454352097	24 VDC	250 VAC	16 A

788 SERIES

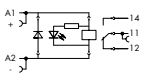
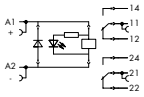
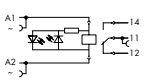
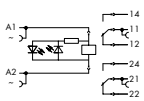
PUSH-IN CAGE CLAMP®

Sockets with a Miniature Switching Relay and Gold Contacts

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **1 changeover contact**, gold contacts and status indication (15 mm tall)			**788-404**	4045454352158	24 VDC	250 VAC*	16 A*
Relay with **2 changeover contacts**, gold contacts and status indication (15 mm tall)			**788-412**	4045454352165	24 VDC	250 VAC*	2 x 8 A*
Relay with **1 changeover contact**, gold contacts and status indication (15 mm tall)			**788-608**	4045454484798	230 VAC	250 VAC*	16 A*
Relay with **2 changeover contacts**, gold contacts and status indication (15 mm tall)			**788-616**	4045454484804	230 VAC	250 VAC*	2 x 8 A*

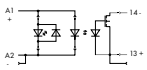
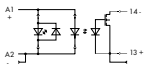
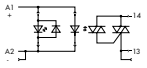
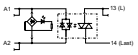
*To prevent the gold layer from being damaged, the specified switching voltages and currents shall not be exceeded. Evaporation of the gold layer may reduce the service life of the relay.

Socket with a Miniature Switching Relay for Manual Operation

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 **changeover contact**, manual operation and status indication (25 mm tall)			**788-341**	4050821226758	24 VDC	250 VAC	16 A
Relay with **2 changeover contacts,** manual operation and status indication (25 mm tall)			**788-346**	4050821226864	24 VDC	250 VAC	2 x 8 A
Relay with 1 **changeover contact**, manual operation and status indication (25 mm tall)			**788-544**	4050821226871	230 VAC	250 VAC	16 A
Relay with **2 changeover contacts,** manual operation and status indication (25 mm tall)			**788-549**	4050821226802	230 VAC	250 VAC	2 x 8 A

788 SERIES

Sockets with a Solid-State Relay

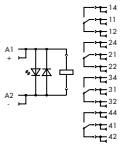
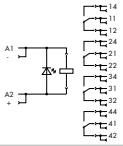
Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Output voltage range	Max. Continuous Current
Relay socket with solid state relay for DC loads			**788-700**	4045454743864	24 VDC	DC 0 V–24 V	3.5 A
Relay socket with solid state relay for DC loads			**788-701**	4045454743871	24 VDC	DC 0 V–24 V	5 A
Solid state relay for AC loads			**788-720**	4045454743888	24 VDC	AC 24 V–240 V	1 A
Solid state relay for AC loads with a zero voltage switch			**788-721**	4045454945961	24 V AC/DC	AC 12 V–275 V	4 A

Push-In Type Jumper Bars

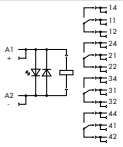
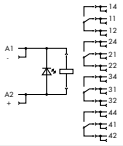
Description	Product Image	Item Number	EAN Number	Max. Continuous Current
2-way push-in type jumper bars for power distribution between relays		**788-113**	4044918508605	17 A
2-way push-in type jumper bars for connecting contact sets within a module		**859-402**	4044918506434	17 A

858 SERIES

Relay Sockets with an Industrial Relay

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **4 changeover contacts**, manual operation and status indication			**858-304**	4045454902902	24 VDC	250 VAC	4 x 5 A
Relay with **4 changeover contacts**, manual operation and status indication			**858-508**	4045454902933	230 VAC	250 VAC	4 x 5 A

Relay Sockets with an Industrial Relay and Gold Contacts

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **4 changeover contacts**, gold contacts, manual operation and status indication			**858-314**	4045454902926	24 VDC	250 VAC*	4 x 5 A*
Relay with **4 changeover contacts**, gold contacts, manual operation and status indication			**858-518**	4045454902940	230 VAC	250 VAC*	4 x 5 A*

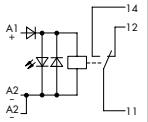
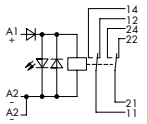
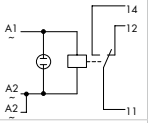
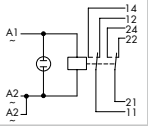
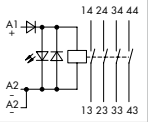
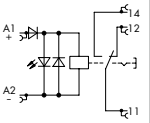
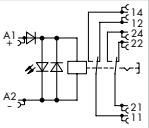
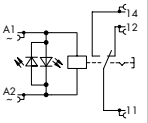
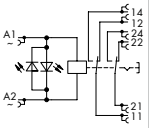
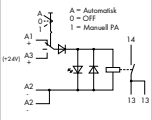
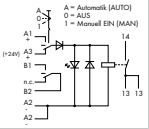
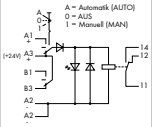
*To prevent the gold layer from being damaged, the specified switching voltages and currents shall not be exceeded. Evaporation of the gold layer may reduce the service life of the relay.

Push-In Type Jumper Bars

Description	Product Image	Item Number	EAN Number	Max. Continuous Current
2-way push-in type jumper bars for power distribution between relays		**858-402**	4045454868109	12 A

789 SERIES

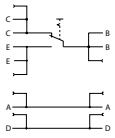
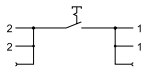
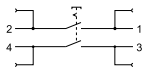
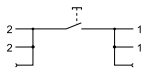
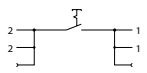
Relay Modules in a DIN-Rail-Mount Enclosure

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **1 changeover contact**			**789-304**	4045454313005	24 VDC	250 VAC	12 A
Relay with **2 changeover contacts**			**789-312**	4045454313043	24 VDC	250 VAC	8 A
Relay with **1 changeover contact**			**789-508**	4017332819398	230 VAC	250 VAC	12 A
Relay with **2 changeover contacts**			**789-516**	4045454388218	230 VAC	250 VAC	8 A
Relay with **4 make contacts**			**789-352**	4045454762957	24 VDC	250 VAC	4 A AC
Relay with **1 changeover contact,** manual override			**789-1341**	4050821386728	24 VDC	250 VAC	12 A
Relay with **2 changeover contacts,** manual override			**789-1346**	4050821386773	24 VDC	250 VAC	8 A
Relay with **1 changeover contact,** manual override			**789-1544**	4050821386780	230 VAC	250 VAC	12 A
Relay with **2 changeover contacts,** manual override			**789-1549**	4050821386797	230 VAC	250 VAC	8 A
Relay with **1 make contact**, Manual/OFF/ Auto switch			**789-323**	4045454550608	24 VDC	250 VAC	16 A
Relay with **1 make contact,** Manual/OFF/Auto switch with feedback contact			**789-325**	4050821110132	24 VDC	250 VAC	16 A
Relay with **1 changeover contact,** Manual/OFF/ Auto switch with feedback contact			**789-329**	4050821110149	24 VDC	250 VAC	12 A

789 SERIES

CAGE CLAMP®

Switching Modules

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Max. Switching Voltage	Max. Continuous Current
Switching module, **changeover,** 1-pole			**789-800**	4017332792554	250 VAC	10 A
Switching module, **breaker,** 1-pole			**789-801**	4050821274742	250 VAC	16 A
Switching module, **breaker,** 2-pole			**789-802**	4050821274810	250 VAC	16 A
Switching module, **switch,** 1-pole			**789-803**	4050821274827	250 VAC	16 A
Switching module, **push-button switch,** 1-pole			**789-804**	4050821274834	250 VAC	16A

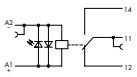
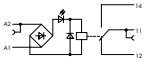
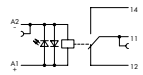
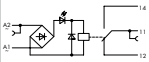
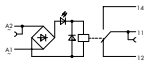
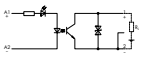
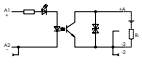
Push-In Type Jumper Bar

Description	Product Image	Item Number	EAN Number	Max. Continuous Current
Push-in type jumper bar, 12-way, for power distribution between relays		**789-112**	4044918861236	16 A

859 SERIES

CAGE CLAMP®

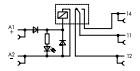
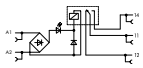
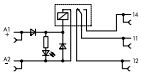
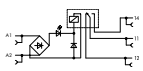
Rail-Mounted Terminal Blocks with a Miniature Switching Relay or an Optocoupler

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **1 changeover contact**			**859-304**	4045454889210	24 VDC	250 VAC	5 A
Relay with **1 changeover contact**			**859-358**	4045454304959	230 V AC/DC	250 VAC	5 A
Relay with **1 changeover contact** and gold contacts			**859-314**	4045454293741	24 VDC	250 VAC*	5 A*
Relay with **1 changeover contact** and gold contacts			**859-359**	4045454503789	230 VAC	250 VAC*	5 A*
Relay with **1 changeover contact** and defined turn-on/off threshold			**859-368**	4045454565831	230 VAC	250 VAC	5 A
Optocoupler			**859-796**	4045454198473	24 VDC	3–30 VDC	100 mA
Power optocoupler			**859-730**	4050821351597	24 VDC	3–30 VDC	3 A

857 SERIES

PUSH-IN CAGE CLAMP®

Sockets with a Miniature Switching Relay

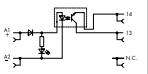
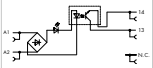
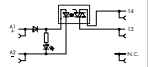
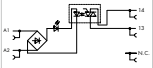
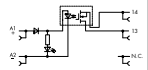
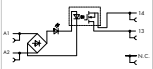
Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with **1 changeover contact**			**857-304**	4050821797807	24 VDC	250 VAC	6 A
			**857-358**	4045454471576	230 V AC/DC	250 VAC	6 A
Relay with **1 changeover contact** and gold contacts			**857-314**	4050821809258	24 VDC	250 VAC*	6 A*
			**857-368**	4045454673482	230 V AC/DC	250 VAC*	6 A*

*To prevent the gold layer from being damaged, the specified switching voltages and currents shall not be exceeded. Evaporation of the gold layer may reduce the service life of the relay.

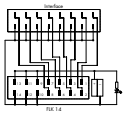
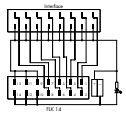
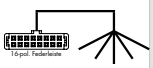
857 SERIES

PUSH-IN CAGE CLAMP®

Sockets with a Solid-State Relay

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal Input Voltage V_N	Output Voltage Range	Max. Continuous Current
Relay socket with a solid-state relay for DC loads			**857-704**	4045454835491	24 VDC	0–48 VDC	100 mA
			**857-708**	4045454835514	230 V AC/DC	0–48 VDC	100 mA
Relay socket with a solid-state relay for DC loads			**857-714**	4045454835545	24 VDC	24–240 VAC	1 A
			**857-718**	4045454835521	230 V AC/DC	24–240 VAC	1 A
Relay socket with a solid-state relay for DC loads			**857-724**	4045454835552	24 VDC	0–24 VDC	2 A
			**857-728**	4045454835484	230 V AC/DC	0–24 VDC	2 A

8-Channel Interface Adapter for System Wiring

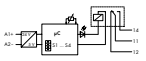
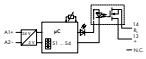
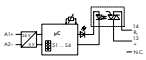
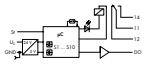
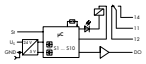
Description	Product Image	Circuit Diagram	Item Number	EAN Number	Nominal voltage:	Current Carrying Capacity per Channel	Max. total current
8-channel **adapter** with 14-pole interface cable connector, high-side switching input; use on the solenoid side			**857-981**	4045454995171	24 VDC	1 A	2.5 A
8-channel **adapter** with 14-pole interface cable connector, high-side switching output; use on the contact side			**857-982**	4045454995188	24 VDC	1 A	2.5 A
WAGO interface cable, 14-pole/free end, 2 m long			**0706-0100/ 1303-0200**	4050821452423			

Find the right jumpers and marking on page 15 in the *JUMPFLEX®* section. Additional cable types and lengths available upon request.

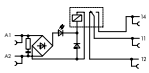
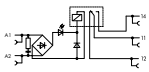
857 SERIES

PUSH-IN CAGE CLAMP®

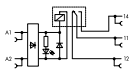
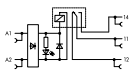
Timer Relays

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Input Voltage Range	Output Voltage Range	Max. Continuous Current
Multifunction timer relay with **1 changeover contact**, 4 functions and 4 time ranges (0.1 s to 300 min)			**857-604**	4050821565673	16.8–31.2 VDC	250 VAC	6 A
Solid-state relay with **1 make contact**, 4 functions and 4 time ranges (0.1 s to 300 min)			**857-624**	4050821565680	20.4–31.2 VDC	DC 0 V–24 V	2 A
Solid-state relay with **1 make contact**, 4 functions and 4 time ranges (0.1 s to 300 min)			**857-634**	4050821565697	20.4–31.2 VDC	24–230 VAC	1 A
Multifunction timer relay with **1 changeover contact**, 14 functions and 8 time ranges			**857-640**	4050821565703	16.8–31.2 VDC	250 VAC	6 A
Multifunction timer relay with **1 changeover contact**, 7 functions and 2 x 8 time ranges			**857-642**	4050821565710	16.8–31.2 VDC	250 VAC	6 A

Relays with Long Wire Lengths

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Input Voltage Range	Output Voltage Range	Max. Continuous Current
Relay with **1 changeover contact** (1 u), an integrated base load module and gold contacts; nominal input voltage V_N 230 VAC			**857-358/ 006-000**	4050821873396	U_N -15 % to +10 %	250 VAC	6 A
Relay with **1 changeover contact** (1 u) and an integrated base load module; nominal input voltage V_N 230 VAC			**857-368/ 006-000**	4050821873402	U_N -15 % to +10 %	250 VAC*	6 A*

Relay with a Wide Input Voltage Range

Description	Product Image	Drawing	Item Number	EAN Number	Input Voltage Range	Output Voltage Range	Max. Continuous Current
Relay with **1 changeover contact** (1u) for normal switching power with a wide input voltage range			**857-359**	4050821856689	24–230 V AC/DC -30 % to +10 %	250 VAC	6 A
Relay with **1 changeover contact** (1 u) for normal switching power with a wide input range and gold contact			**857-369**	4050821854241	24–230 V AC/DC -30 % to +10 %	250 VAC*	6 A*

*To prevent the gold layer from being damaged, the specified switching voltages and currents shall not be exceeded. Evaporation of the gold layer may reduce the service life of the relay.

WAGO INTERFACE MODULES

Setting Our Sights on Variety

Safe and Maintenance-Free Connections

Interface modules connect electronics to technology at the control level and perform signal transmission and distribution in the control and field levels (system, machine) and vice versa.

Here, the control signals from pre-assembled, plug-in connections are applied to terminal block connections. Using these interface modules, the following benefits are provided for system wiring:

- Quick wiring, commissioning and troubleshooting thanks to clearly laid-out wiring and highly legible pole marking – decrease wiring errors.
- Secure and maintenance-free connections for signal lines using CAGE CLAMP® connection technology.

The interface modules can be delivered as standard, in a universal DIN-rail mounting carrier for the following connectors:

Interface Modules with Sub-D Male or Female Connectors

with 9, 15, 25, 37 or 50 connectors

Interface Modules with Plug-In Connector per DIN 41 651

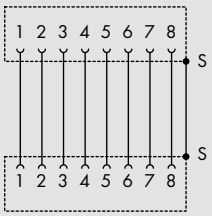
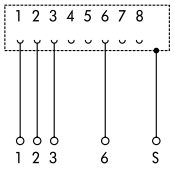
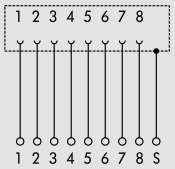
available with 10-, 14-, 16-, 20-, 26-, 34-, 40-, 50- and 64-pin male connectors

RJ-45 Interface Modules

for PC, network and telephone service applications

289 SERIES

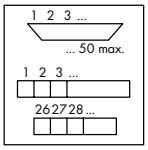
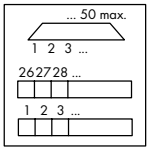
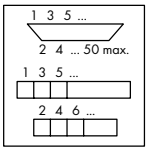
RJ-45 Interface Modules

Description	Product Image	Circuit Diagram	Item Number	EAN Number
RJ-45 interface module and DIN-rail-mount carrier			**289-172**	4045454317478
RJ-45 interface module with shield carrier for WAGO shield clamping saddle and DIN-rail-mount carrier			**289-174**	4045454317492
RJ-45 interface module with shield carrier for WAGO shield clamping saddle and DIN-rail-mount carrier			**289-175**	4045454317522
WAGO shield clamping saddle (11 mm width, cable diameter up to 8 mm)			**790-108**	4017332356954

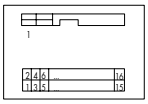
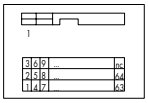
289 SERIES

CAGE CLAMP®

Interface Modules with Sub-D Connectors

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Pole No.	Operating Voltage	Nominal Current
Interface module with D-subminiature male connector, for mating connectors with solder connection, vertical insertion, mounting carrier for DIN-rail			**289-545** **289-546** **289-547** **289-548** **289-549**	4045454413804 4045454413583 4045454362171 4045454366971 4045454322779	9 15 25 37 50	125 V AC/DC	2 A
Interface module with D-subminiature female connector, for mating connectors with solder connection, vertical insertion, mounting carrier for DIN-rail			**289-555** **289-556** **289-557** **289-558** **289-559**	4045454371180 4045454417857 4045454432683 4045454501303 4045454409746	9 15 25 37 50	125 V AC/DC	2 A
Interface module with subminiature D-male connector, for mating connectors with IDC, mating direction vertical, mounting carrier for DIN-rail			**289-540** **289-541** **289-542** **289-543** **289-544**	4045454466121 4045454413569 4045454362096 4045454366964 4045454452216	9 15 25 37 50	125 V AC/DC	2 A

Interface Modules with Plug-In Connector per DIN 41651

Description	Product Image	Circuit Diagram	Item Number	EAN Number	Pole No.	Operating Voltage	Nominal Current
Interface module for flat cable connectors per DIN 41651, RJ-45 interface module, mounting carrier for DIN-rail			**289-611** **289-612** **289-613**	4045454471200 4045454353575 4045454405465	10 14 16	125 V AC/DC	1 A
Interface module for ribbon cable connectors per DIN 41651 mounting carrier for DIN-rail			**289-614** **289-615** **289-616** **289-617** **289-618** **289-619**	4045454011543 4045454353582 4045454353599 4045454353612 4045454353629 4045454329877	20 26 34 40 50 64	125 V AC/DC	1 A

JUMPFLEX® SIGNS AND SYMBOLS

SIGNAL CONDITIONERS AND ISOLATION AMPLIFIERS


Isolation Amplifiers


Temperature Signal Conditioners


Threshold Value Switches


Frequency Signal Conditioner


Potentiometer Signal Conditioner


Resistance Signal Conditioners


Current Signal Conditioner


Voltage Signal Conditioner

SPECIALTY FUNCTIONS

Zero/Span adjustment


Clipping function

Digital output (DO)


Relay 1 changeover contact


Relay 1 make contact

CONFIGURATION


DIP switches


Configuration Software


Configuration app


Touch panel


Push/Slide switch

GENERAL


Temperature sensors


Connection technology


Supply voltage

INPUT SIGNALS


Frequencies


Potentiometers


Resistors


Current


Voltage


Bipolar signals Current and voltage

OUTPUT SIGNALS


Current


Voltage


Bipolar signals Current and voltage

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