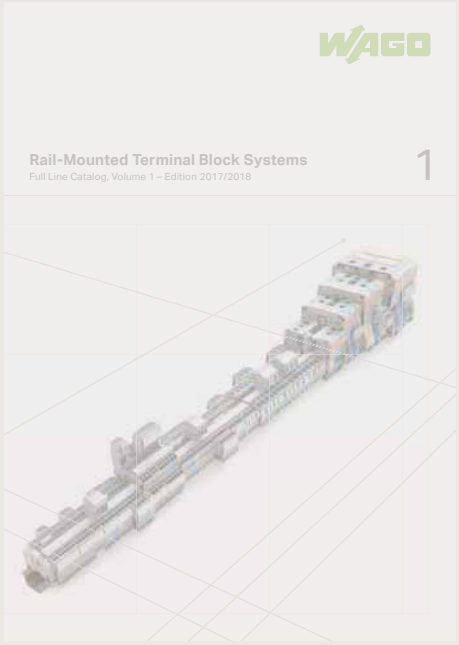
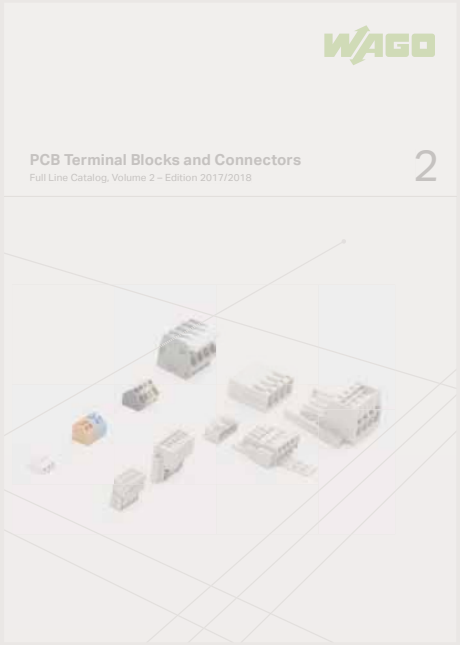
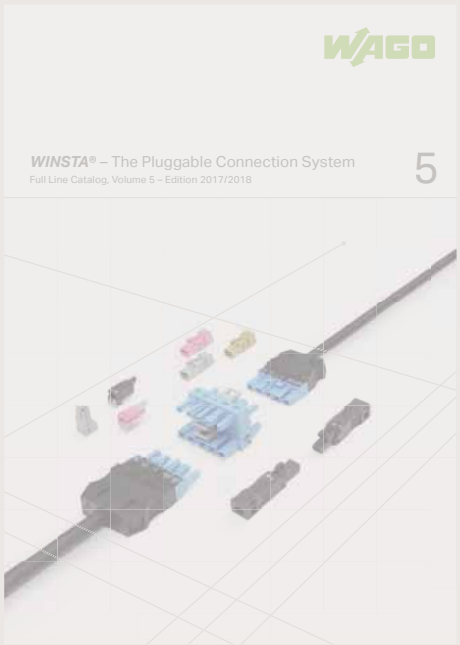
Automation Technology and Interface Electronic

Supplementary Catalog to Full Line Catalogs, Volumes 3/4/6

Edition 2016/2



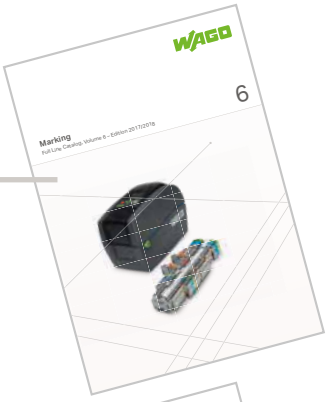




The new items in this catalog supplement products found in the following main catalogs

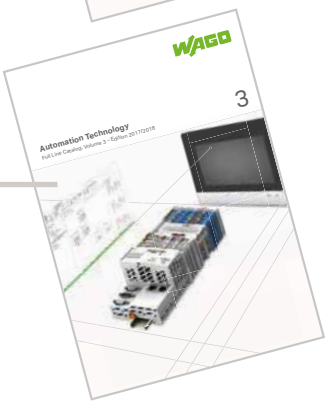
N 3/4/6

Volume 6
Marking



Volume 4
Interface Electronic

Volume 3
Automation Technology

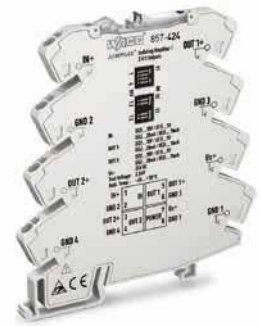


Supplementary Catalog AUTOMATION 2/2016

JUMPFLEX® Signal Conditioners

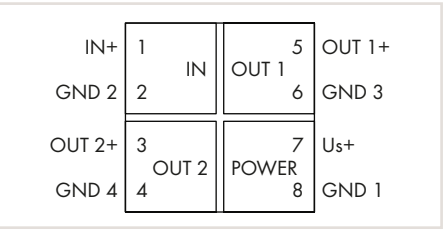
Signal Splitter with 2 Configurable Voltage and Current Outputs

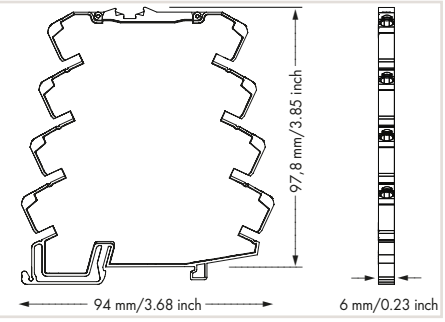
857 Series



JUMPFLEX® Isolation Amplifier, current and voltage input signal, 2 x current and voltage output signal, configuration via DIP switch, 24 VDC supply voltage, 6 mm wide

	Item No.	Pack. Unit
	857-424	1





Short description:
The 857-424 Signal Splitter converts, amplifies, filters and electrically isolates analog standard signals. In addition, the input signal is split into two separate outputs.

Features:
- Two configurable voltage/current outputs
- Switchable limiting frequency
- Safe 4-way isolation with 3 kV test voltage per EN 61010-1

Technical Data	
Configuration	
Configuration	DIP switch
Input	
Input signal	0 … 10 mA, 2 … 10 mA, 0 … 20 mA, 4 … 20 mA, 0 … 5 V, 1 … 5 V, 0 … 10 V, 2 … 10 V
Max. input signal	12 V, 24 mA
Overload capacity	30 V, 50 mA
Measurement range overflow/underflow	10.25 V, 20.5 mA / -0.25 V, -0.5 mA
Input resistance	< 50 Ω (I input) > 100 kΩ (U input)
Output	
Output signal	0 … 10 V, 2 … 10 V (calibrated configurable signals), 0 … 20 mA, 4 … 20 mA (calibrated configurable signals), max. 12 V, 24 mA
Load impedance	≤ 600 Ω (I output) ≥ 2 kΩ (U output)
General Specifications	
Nominal supply voltage U_S	24 VDC
Supply voltage range	U_S -30 … +30 %
Current input at 24 VDC	≤ 35 mA
Limiting frequency	100 Hz / > 1 kHz (configurable via DIP switch)
Response time (T_{10-90})	< 3.5 ms / < 300 µs
Transmission error	≤ 0.1 % of upper-range value
Temperature coefficient	≤ 0.01 %/K
Conformity marking	CE
Standards/Approvals	EN 61010-1, EN 61326-1
Environmental Requirements	
Ambient operating temperature	–40 … +70 °C
Storage temperature	-40 … +85 °C
Safety and Protection	
Test voltage	
(input/output/supply)	3 kV (AC), 50 Hz, 1 min
Protection type	IP20
Connection and Mounting Type	
Connection technology	Push-in CAGE CLAMP®
Conductor range	
Solid	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Dimensions and Weight	
Dimensions (mm) W x H x D	6 x 97.8 x 94, height from upper-edge of DIN-rail
Weight	37.9 g

Configuration via:

Overview of icons, see page 28

857-424
DIP Switch Adjustability

● = ON

DIP Switch S1 (4 positions)

Input Signal				Max. Operating Frequency	
1	2	3		4	
●			0 … 20 mA		> 1 kHz
●		●	4 … 20 mA	●	100 Hz
●	●		0 … 10 mA		
●	●	●	2 … 10 mA		
			0 … 10 V		
		●	2 … 10 V		
	●		0 … 5 V		
	●	●	1 … 5 V		

DIP Switch S2 (2 positions)

Output Signal 1		
1	2	
		0 … 10 V
●		2 … 10 V
	●	0 … 20 mA
●	●	4 … 20 mA

DIP Switch S3 (2 positions)

Output Signal 2		
1	2	
		0 … 10 V
●		2 … 10 V
	●	0 … 20 mA
●	●	4 … 20 mA

Default Settings

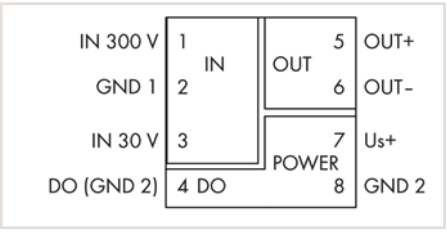
Input	0 … 20 mA
Output Signal 1	0 … 10 V
Output Signal 2	0 … 10 V
Max. Operating Frequency	> 1 kHz

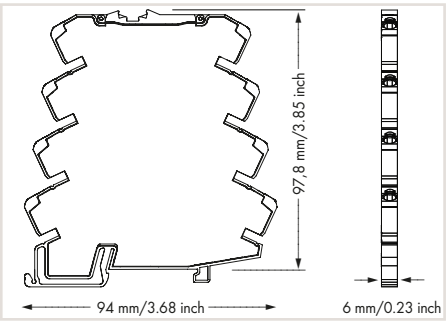
JUMPFLEX® Signal Conditioners

Voltage Signal Conditioner
857 Series

JUMPFLEX® Voltage Signal Conditioner, current input signal for AC and DC voltages, current and voltage output signal, digital output, configuration via software/DIP switch, 24 VDC supply voltage, 6 mm wide

	Item No.	Pack. Unit
	857-560	1





Short description:
The 857-560 Voltage Signal Conditioner measures AC and DC voltages up to 300 V AC/DC and converts the input signal into an analog standard signal at the output.

Features:
- Two isolated measurement inputs for 30 V and 300 V AC/DC
- True RMS measurement or arithmetic mean value
- A digital signal output reacts to configured measurement range limits (switching ON/OFF delay and threshold value switch function configurable with up to two threshold values)
- Switchable filter function
- Safe 3-way isolation with 3 kV test voltage per EN 61010-1

Specialty functions:

Configuration via:

Technical Data	
Configuration	
Configuration	DIP switch, interface configuration software, interface configuration app
Input	
Input signal	300 or 30 VAC/DC
Response threshold	IN 1: 300 mV, IN 2: 30 mV
Input resistance	> 300 kΩ
Frequency range	10 … 100 Hz (AC)
Overload capacity	IN 1: 600 V; IN 2: 60 V (permanent)
Resolution	IN 1: 30 mV, IN 2: 3 mV
Output	
Output signal	± 0 … 20 mA, 4 … 20 mA, ± 0 … 10 mA, 2 … 10 mA ± 0 … 10 V, 2 … 10 V, ± 0 … 5 V, 1 … 5 V
Load impedance	≤ 600 Ω (I output); ≥ 1 kΩ (U output)
Output – Digital	
Max. switching voltage	Supply voltage applied
Max. continuous current	100 mA
General Specifications	
Nominal supply voltage U_S	24 VDC
Supply voltage range	U_S -30 … +30 %
Current input at 24 VDC	46 mA + I_{DO}
Measuring procedure	Effective value (RMS) or arithmetic mean value
Limiting frequency	2 kHz
Response time (typ.), signal cycle duration	+ 1 ms
Response time (T_{10-90})	60 ms
Temperature coefficient	≤ 0.01 %/K
Linearity error	≤ 0.1 %
Measurement error	< 0.5 %
Conformity marking	CE
Standards/Approvals	EN 61010-1, EN 61326-1
Environmental Requirements	
Ambient operating temperature	–40 … +70 °C
Storage temperature	-40 … +85 °C
Safety and Protection	
Test voltage	
(input/output/supply)	3 kV (AC), 50 Hz, 1 min
Protection type	IP20
Connection and Mounting Type	
Connection technology	Push-in CAGE CLAMP®
Conductor range	
Solid	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Dimensions and Weight	
Dimensions (mm) W x H x D	6 x 97.8 x 94, height from upper-edge of DIN-rail
Weight	55 g

Overview of icons, see page 28

857-560

DIP Switch Adjustability

● = ON

DIP Switch S1

1	2	Input	3	Measuring Method	4	Filter
		300 V		RMS		Off
	●	150 V	●	Arithmetic mean value	●	Active
●		30 V				
●	●	15 V				

DIP Switch S1

5	6	7	Output Signal Range
			(+/-) 0 ... 20 mA
	●		4 ... 20 mA
●			(+/-) 0 ... 10 V
●	●		2 ... 10 V
		●	(+/-) 0 ... 10 mA
	●	●	2 ... 10 mA
●		●	(+/-) 0 ... 5 V
●	●	●	1 ... 5 V

DIP Switch S1

8	9	Measuring Range Underflow	Measuring Range Overflow	10	Digit Output DO/ Signaling
		Lower limit of measuring range −5 %*	Upper limit of measuring range +2.5 %*		DO U_S+ switching
●		Lower limit of measuring range	Upper limit of measuring range +2.5 %	●	DO GND switching
	●	Lower limit of measuring range	Upper limit of measuring range		
●	●	Lower limit of measuring range	Upper limit of measuring range		

*per NAMUR NE 43

Filter

The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

Digital Output DO/Signaling

The digital output (DO) signals error messages and can be configured as follows:
24 V → 0 V/0 V → 24 V

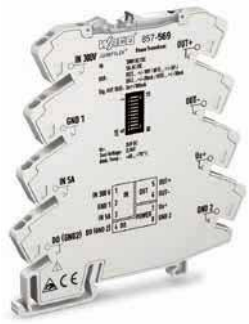
Default Setting

All DIP switches are in "OFF" position for delivery.	
Input	
Input	300 V
Measuring Method	RMS
Filter	Off
Output	
Output Signal	0 ... 20 mA
Measuring Range Underflow	0 mA
Measuring Range Overflow	20.5 mA
Overcurrent	21 mA
Digital Output DO	U_S+ switching

JUMPFLEX® Signal Conditioners

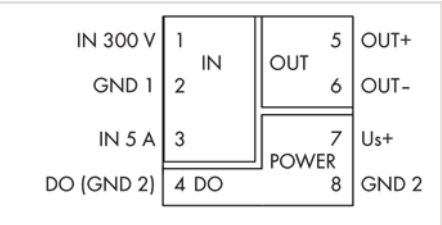
Power Signal Conditioner

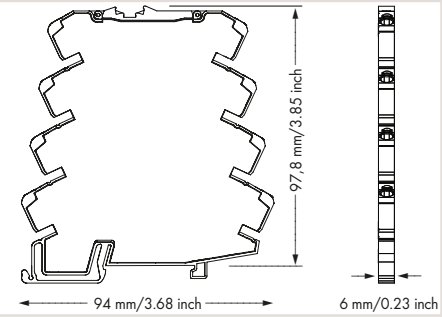
857 Series



JUMPFLEX® Power Signal Conditioner, current and voltage input signal, current and voltage output signal, digital output, configuration via software/DIP switch, 24 VDC supply voltage, 6 mm wide

Item No.	Pack. Unit
857-569	1





Short description:
The 857-569 Power Signal Conditioner measures both AC/DC voltages and currents, converting the input signal into an analog standard signal at the output. Measured value processing can be switched between effective, apparent or reactive power, and phase angle.

Features:
- Two isolated measurement inputs for AC and DC voltages and AC and DC currents
- RMS measurement
- A digital signal output reacts to configured measurement range limits (switching ON/OFF delay and threshold value switch function configurable with up to two threshold values)
- Switchable filter function
- Safe 3-way isolation with 3 kV test voltage per EN 61010-1

Specialty functions:

Configuration via:

Overview of icons, see page 28

Technical Data	
Configuration	
Configuration	DIP switch, interface configuration software, interface configuration app
Input	
Input signal	IN 1: 300 V AC/DC, IN 2: 5 A AC/DC
Response threshold	IN 1: 300 mV IN 2: 10 mA
Resolution	IN 1: 30 mV IN 2: 1 mA
Input resistance	≤ 10 mΩ (I input); > 300 kΩ (U output)
Frequency range	15 … 100 Hz (AC)
Overload capacity	10 A AC/DC (permanent)
Output	
Output signal	0 … 10 mA, 2 … 10 mA, 0 … 20 mA, 4 … 20 mA, 0 … 5 V, 1 … 5 V, 0 … 10 V, 2 … 10 V (can be inverted, also bipolar)
Load impedance	≤ 600 Ω (I output); ≥ 1 kΩ (U output)
Output – Digital	
Max. switching voltage	Supply voltage applied
Max. continuous current	100 mA
General Specifications	
Nominal supply voltage U_S	24 VDC
Supply voltage range	U_S -30 … +30 %
Current input at 24 VDC	≤ 46 mA
Measuring procedure	RMS measurement
Measured variables	Effective/apparent/reactive power, power factor
Limiting frequency	2 kHz
Response time (typ.), signal cycle duration	+1 ms
Response time (T_{10-90})	100 ms
Temperature coefficient	≤ 0.01 %/K
Linearity error	≤ 0.1 %
Measurement error (relative to measurement range upper limit)	Voltage: < 0.5 % Current: < 0.5 % Phase angle: < 0.5 %
Conformity marking	CE
Standards/Approvals	EN 61010-1, EN 61326-1
Environmental Requirements	
Ambient operating temperature	–40 … +70 °C
Storage temperature	-40 … +85 °C
Safety and Protection	
Test voltage	
(input/output/supply)	3 kV (AC), 50 Hz, 1 min.
Protection type	IP20
Connection and Mounting Type	
Connection technology	Push-in CAGE CLAMP®
Conductor range	
Solid	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Dimensions and Weight	
Dimensions (mm) W x H x D	6 x 97.8 x 94, height from upper-edge of DIN-rail
Weight	55 g

857-569
DIP Switch Adjustability

● = ON

DIP Switch S1

1	2	Input	3		4	Filter
		Active power		Off		Off
	●	Apparent power	●		●	Active
●		Reactive power				
●	●	Power factor				

DIP Switch S1

5	6	7	Output Signal Range
			0 ... 20 mA
	●		4 ... 20 mA
●			0 ... 10 V
●	●		2 ... 10 V
		●	0 ... 10 mA
	●	●	2 ... 10 mA
●		●	0 ... 5 V
●	●	●	1 ... 5 V

DIP Switch S1

8	9	Measuring Range Underflow	Measuring Range Overflow	10	Digit Output DO/ Signaling
		Lower limit of measuring range −5 %*	Upper limit of measuring range +2.5 %*		DO U_S+ switching
●		Lower limit of measuring range	Upper limit of measuring range +2.5 %	●	DO GND switching
	●	Lower limit of measuring range	Upper limit of measuring range		
●	●	Lower limit of measuring range	Upper limit of measuring range		

***per NAMUR NE 43**

Filter

The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

Digital Output DO/Signaling

The digital output (DO) signals error messages and can be configured as follows:
24 V → 0 V/0 V → 24 V

Default Setting

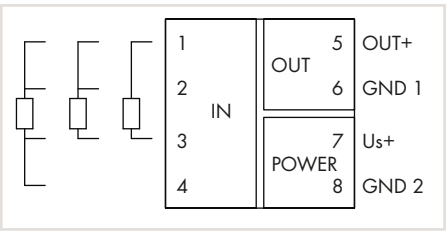
All DIP switches are in "OFF" position for delivery.	
Input	
Input	Power
Measuring Method	Active power
Filter	**Off**
Output	
Output	Current
Output Signal Range	**0 ... 20 mA**
Measuring Range Underflow	**0 mA**
Measuring Range Overflow	**20.5 mA**
Overcurrent	**21 mA**
Digital Output DO	U_S+ switching

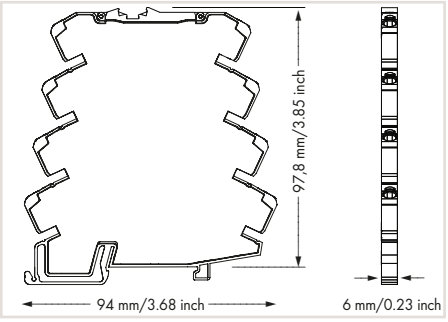
JUMPFLEX® Signal Conditioners

Loop-Powered RTD Temperature Signal Conditioner
857 Series

JUMPFLEX® Loop-Powered RTD Temperature Signal Conditioner for Pt Sensors, current output signal, configuration via DIP switch, power via output, 6 mm wide

	Item No.	Pack. Unit
	857-815	1





Short description:
The 857-815 Loop-Powered RTD Temperature Signal Conditioner records Pt100, Pt200, Pt500 and Pt1000 sensors and resistors up to 4.5 kΩ, converting the temperature signal into an analog standard signal on the output side.

Features:
- No additional supply voltage required
- For Pt100, Pt200, Pt500 and Pt1000 sensors, as well as resistors up to 4.5 kOhm
- 2-, 3-, and 4-wire connection technology
- Switching between measurement ranges is calibrated
- Detects sensor wire break/short circuit
- Safe 3-way isolation with 3 kV test voltage per EN 61010-1

Configuration via:

Technical Data	
Configuration	
Configuration	DIP switch
Input	
Input signal	Pt sensors and resistors
Sensor types	Pt100, Pt200, Pt500, Pt1000
Sensor connection	2-wire, 3-wire, 4-wire (configurable)
Temperature range	−200 … +850 °C
Sensor power supply	< 0.5 mA
Resistor input	0 … 1 kΩ, 0 … 4.5 kΩ
Output	
Output signal	4 … 20 mA, 20 … 4 mA
Load impedance	≤ 600 Ω (I output)
Refresh cycle	< 1 s (per NAMUR NE 89)
General Specifications	
Nominal supply voltage U_S	8 … 30 V (power derived from the output circuit)
Min. measuring span	50 K
Transmission error	≤ 0.1 % at full measuring span
Transmission error of the preset measuring span	((40 K / preset measuring span [K]) + 0.1)%
Temperature coefficient	≤ 0.02 %/K
Conformity marking	CE
Standards/Approvals	EN 61010-1, EN 61326-1
Environmental Requirements	
Ambient operating temperature	−25 … +70 °C
Storage temperature	-40 … +85 °C
Safety and Protection	
Test voltage	
(input/output/supply)	3 kV (AC), 50 Hz, 1 min
Protection type	IP20
Connection and Mounting Type	
Connection technology	Push-in CAGE CLAMP®
Conductor range	
Solid	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Dimensions and Weight	
Dimensions (mm) W x H x D	6 x 97.8 x 94, height from upper-edge of DIN-rail
Weight	39 g

Overview of icons, see page 28

857-815
DIP Switch Adjustability

● = ON

DIP Switch S1

Sensor Connection			Sensor Type				Output Signal		N. C.				Measuring Range Underflow	Measuring Range Overflow	Wire Break	Short Circuit
1	2		3	4	5		6		7	8	9	10				
		2-wire				Pt100		4 … 20 mA					Lower limit of output range −5 % *	Upper limit of output range +2.5 % *	Upper limit of output range +5 % *	Lower limit of output range −12.5 % *
●		3-wire	●			Pt200	●	20 … 4 mA								
	●	4-wire		●		Pt500					●		Lower limit of output range	Upper limit of output range +2.5 %	Upper limit of output range +5 %	Lower limit of output range
●	●	2-wire	●	●		Pt1000										
					●	1 kΩ						●	Lower limit of output range	Upper limit of output range	Upper limit of output range +5 %	Upper limit of output range +5 %
			●		●	4.5 kΩ										
											●	●	Lower limit of output range	Upper limit of output range	Lower limit of output range	Lower limit of output range

*per NAMUR NE 43

DIP Switch S2

Output Signal Start Temperature						Output Signal End Temperature																									
1	2	3	4	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F
				0	32							100	212					●		75	167						●	210	410					●	●	475	887
●				−200	−328	●						0	32	●				●		80	176	●					●	220	428	●				●	●	500	932
	●			−175	−283		●					5	41		●			●		85	185		●				●	230	446		●			●	●	525	997
●	●			−150	−238	●	●					10	50	●	●			●		90	194	●	●				●	240	464	●	●			●	●	550	1022
		●		−125	−193			●				15	59			●		●		95	203			●			●	250	482			●		●	●	575	1067
●		●		−100	−148	●		●				20	68	●		●		●		100	212	●		●			●	260	500	●		●		●	●	600	1112
	●	●		−90	−130		●	●				25	77		●	●		●		110	230		●	●			●	270	518		●	●		●	●	625	1157
●	●	●		−80	−112	●	●	●				30	86	●	●	●		●		120	248	●	●	●			●	280	536	●	●	●		●	●	650	1202
			●	−70	−94				●			35	95				●	●		130	266				●		●	290	554				●	●	●	675	1247
●			●	−60	−76	●			●			40	104	●			●	●		140	284	●			●		●	300	572	●			●	●	●	700	1292
	●		●	−50	−58		●		●			45	113		●		●	●		150	302		●		●		●	325	617		●		●	●	●	725	1337
●	●		●	−40	−40	●	●		●			50	122	●	●		●	●		160	320	●	●		●		●	350	662	●	●		●	●	●	750	1382
		●	●	−30	−22			●	●			55	131			●	●	●		170	338			●	●		●	375	707			●	●	●	●	775	1427
●		●	●	−20	−4	●		●	●			60	140	●		●	●	●		180	356	●		●	●		●	400	752	●		●	●	●	●	800	1472
	●	●	●	−10	14		●	●	●			65	149		●	●	●	●		190	374		●	●	●		●	425	797		●	●	●	●	●	825	1517
●	●	●	●	0	32	●	●	●	●			70	158	●	●	●	●	●		200	392	●	●	●	●		●	450	842	●	●	●	●	●	●	850	1562

The minimum distance from the start temperature to the end temperature may not fall short of 50K degrees on the Celsius (C) scale or 122K degrees on the Fahrenheit (F) scale.

Default Settings

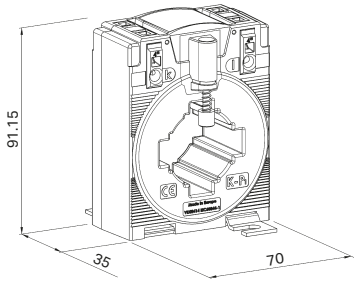
All DIP switches are in “OFF” position for delivery.	
Sensor connection	2-wire
Sensor type	Pt100
Start temperature	0 °C
End temperature	100 °C
Output signal	4 … 20 mA
Measuring range underflow	3.8 mA
Measuring range overflow	20.5 mA
Wire break	21 mA
Short circuit	3.5 mA

Plug-In Current Transformers with CAGE CLAMP® Connection
855 Series

Short description:
The 855 Series Plug-In Current Transformers are inductive, single-conductor current transformers, that function according to the transformer principle. Due to the measurement principle used, these current transformers are exclusively designed for AC network applications.

Features:
- Screwless CAGE CLAMP® connection technology
- Several mounting options available
- Vibration- and shock-resistant
- High mechanical retention forces
- High current-carrying capacity
- Continuous overload of 120 % the nominal primary current
- Low-voltage current transformer for operating voltages up to 1.2 kV
- Can be used in 690 V power networks
- UL recognized components

Technical Data	
Input	
Rated continuous thermal current I_{cth}	1.2 x I_N
Rated short-time thermal current I_{th}	60 x I_N (max. 100 kA), 1 s
Max. operating voltage U_m	1.2 kV_{rms}
Rated frequency	50 … 60 Hz
Overcurrent limiting factor	FS5 or FS10 (type dependent, see type plate inscription)
General Specifications	
Conformity marking	CE
Standards/Approvals	EN 61869-1; EN 61869-2
cULus (Recognized Components)	E356480
Environmental Requirements	
Ambient operating temperature	−5 … +50 °C
Storage temperature	−25 … +70 °C
Max. operating altitude	1000 m
Safety and Protection	
Test voltage	6 kV_{rms} AC / 50 Hz / 1 min
Insulation class	E
Connection	
Connection technology	CAGE CLAMP®
Conductor range	0.08 … 4 mm² / 28 … 12 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch

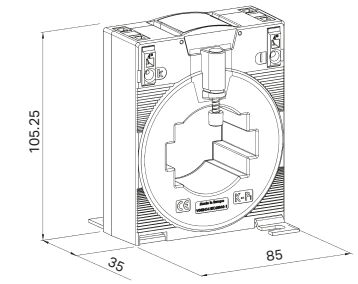


855-4xx/xxxx-xxxx

Busbar 1: 40 x 10 mm
Busbar 2: 30 x 15 mmm

Round cable: 32 mm

Plug-In Current Transformer	Primary Rated Current	Secondary Rated current	Rated Power	Accuracy Class	Item No.	Pack. Unit
	250 A	1 A	5 VA	1	855-401/250-501	1

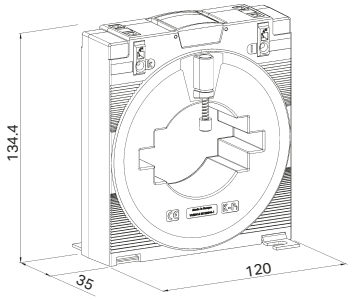


855-5xx/xxxx-xxxx

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

Round cable: 44 mm

Plug-In Current Transformer	Primary Rated Current	Secondary Rated current	Rated Power	Accuracy Class	Item No.	Pack. Unit
	400 A	1 A	10 VA	1	855-501/400-1001	1
	600 A	1 A	10 VA	1	855-501/600-1001	1
	800 A	1 A	10 VA	1	855-501/800-1001	1



855-8xx/xxxx-xxxx

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

Round cable: 55 mm

Plug-In Current Transformer	Primary Rated Current	Secondary Rated current	Rated Power	Accuracy Class	Item No.	Pack. Unit
	1000 A	1 A	10 VA	1	855-801/1000-1001	1

Current and Voltage Tap for 95 mm² High-Current Through Terminal Block (285-195)
855 Series

Current and voltage tap for 95 mm² high-current through terminal block (285-195)

	Item No.	Pack. Unit
	855-951/250-000	1

Short description:
The 855-951/250-000 Current and Voltage Tap for 95 mm² high-current through terminal block provides the ideal basis for successful energy management, because current and voltage are required wherever electrical power is measured. A combination of current transformer and voltage tap, the 855-951 can quickly and easily be inserted into the jumper slot of the 95 mm² high-current through terminal block (285-195).

An integrated fuse provides protection for energy measurement devices connected in the downstream circuit. An integrated current transformer (conversion ratio: 250 A/1 A) allows precise current measurement per EN 61869-2 (accuracy class: 0.5).

The current output connectors are marked with S1 (black) and S2 (red). Both termination and removal of fine-stranded conductors is performed via push-buttons. The 5-pole configuration (2 x S1 and 3 x S2) provides the following advantages:

- Current transformer (S1 and S2) can be short circuited via jumper (2000-402)
- Direct 'Y' point jumper on current transformer

The voltage is connected using a redundant terminal block.

Additionally, the current and voltage tap can be marked either using continuous marking strips or via WMB Multi Marking System.

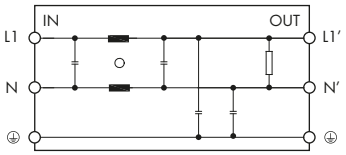
Features:
- Power data can be directly tapped into the power supply
- Easy installation – simply insert the tap into the jumper slot of the 95 mm² high-current through terminal block (285-195)
- Integrated 250 A/1 A current transformer
- Accuracy class: 0.5
- Fuse-protected voltage path

Technical Data	
Input (current transformer)	
Primary rated current I_{pr}	250 A
Rated continuous thermal current I_{cth}	250 A
Rated short-time thermal current I_{th}	15 kA / 1 s
Rated surge current I_{dyn}	37.5 kA
Rated frequency f_r	50 … 60 Hz
Highest voltage for equipment U_m	0.72 kV
Rated insulation level	3 kV
Output (current transformer)	
Secondary Rated Current I_{sr}	1 A
Accuracy class	0.5
Rated power S_r	0.2 VA
Output (voltage tap)	
Nominal voltage	690 VAC
Fuse (voltage path)	2 A, 450 V, F, 70 kA, 5 x 25 mm, (SIBA Art. No. 7008913.2)
Safety and Protection	
Protection type	IP20
Connection and Mounting Type	
Feedthrough for measurement conductor	16 mm Ø (max.)
Connection technology	Current output: WAGO 250 Series Voltage output: WAGO 2624 Series
Conductor range	Current output: 0.2 … 1.5 mm² / 24 … 10 AWG Voltage output: 0.2 … 4 mm² / 24 … 14 AWG
Strip length	Current output: 8 … 9 mm / 0.31 … 0.35 inch Voltage output: 10 … 12 mm / 0.39 … 0.47 inch
Mounting type	via jumper slot of the 2-conductor high-current through terminal block (285-195)
Dimensions and Weight	
Dimensions (mm) W x H x D	25 x 73 x 94
Weight	
General Specifications	
Conformity marking	CE
Standards/Approvals	EN 61869-2

EPSITRON®
Radio Interference Suppression Filter, 1-Phase
787 Series

Radio interference suppression filter, 250 VAC, 10 A

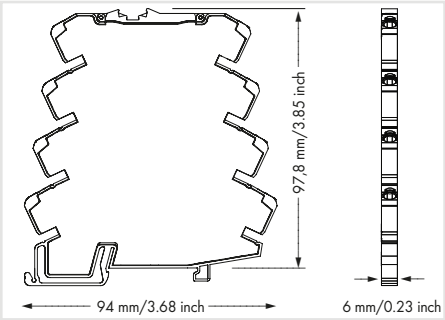
Item No.	Pack. Unit
787-980	1



Features:
- Suppresses interference generated on the mains side of power supplies and electronic devices
- Fulfills general requirements
- Provides a single-stage filter solution
- Efficiently filters out line-bound interference emissions
- Increases the interference immunity of connected loads

Technical Data	
Input/Output	
Nominal input voltage $U_{I\,nom}$	250 VAC
Input voltage range	0 … 250 VAC
Frequency	50 … 60 Hz
Input current I_I	10 A
Overload capacity	150 %, shortly
Discharge current	8 mA
Efficiency/Power Losses	
Power loss P_I	4.0 W
Environmental Requirements	
Ambient operating temperature	–25 … +70 °C, device starts at –40 °C, type-tested
Derating	–2.5 %/K (> 45 °C)
Climatic category	25/085/21 (per EN 60068-1)
Safety and Protection	
Housing	Metal housing
Test voltage	1700 VDC (L1-N); 2700 VDC (I1-PE)
Protection class	I
Protection type	IP20 per EN 60529
Connection and Mounting Type	
Connection technology	L1, N: WAGO 741 Series Ground: 6.3 x 0.8 mm tab connector
Conductor range	L1, N: 0.08 … 2.5 mm² / 28 … 12 AWG Ground: –
Mounting type	DIN-rail mount (EN 60715)
Dimensions and Weight	
Dimensions (mm) W x H x D	50 x 85 x 100, depth from upper-edge of DIN-rail
Weight	340 g
General Specifications	
Standards/Approvals	DIN EN 60939-2

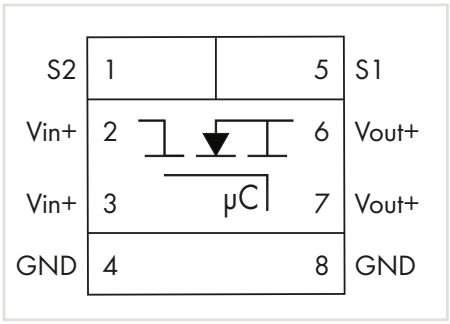
EPSITRON®
Electronic Circuit Breakers (ECBs)
787 Series



Features:

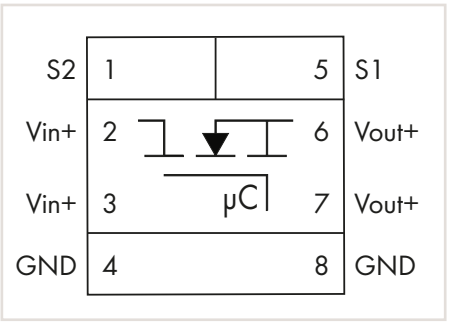
- Space-saving ECB with one channel and 1 A nominal current
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50,000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on in interconnected operation

Technical Data	
Input	
Nominal input voltage $U_{I\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Output	
Nominal output voltage $U_{o\,nom}$	$U_{o\,nom}$ – voltage drop
Trip time	Load-dependent (4 ms ... 100 s)
Switch-on capacity	> 50,000 µF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent min. 2 ms/max. 200 ms)
Active current limitation	No
Operation status indicator	LED (green/red/orange)
Signaling	Status output, high-side switching, can also be combined as a group output for up to 30 devices
Remote input	18 … 30 VDC signal, switches on/off and resets the channel
Efficiency/Power Losses	
Efficiency	99 % (typ.)
Power loss P_l	0.5 W (nominal load)
Fuse Protection	
Internal fuse	15 AT
Environmental Requirements	
Storage temperature	-40 … +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	No derating
Safety and Protection	
Test voltage	500 VDC (bus modules to housing)
Protection class	III
Reverse voltage protection	No
Protection type	IP20 per EN 60529
Overvoltage protection	Via 33 V suppressor diode at input
Series connection of several devices	Not permitted
Parallel operation of single channels	Not permitted
Connection and Mounting Type	
Connection technology	Push-in CAGE CLAMP® (WAGO 857 Series)
Conductor range	Solid: 0.08 … 2.5 mm² / 28 … 14 AWG Fine-stranded: 0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 15 mm / 0.35 … 0.39 inch
Mounting type	DIN-rail mount (EN 60715)
Dimensions and Weight	
Dimensions (mm) W x H x D	6 x 97.8 x 95, height from upper-edge of DIN-rail
Weight	40 g
General Specifications	
Standards/Approvals	EN 61000-6-2, EN 61000-6-3, UL 61010-1*, UL 2367*, GL* (*pending)



Electronic circuit breaker, *EPSITRON*®, 1-channel, 24 VDC, 1 A, communication capability

Item No.	Pack. Unit
787-2861/100-000	1

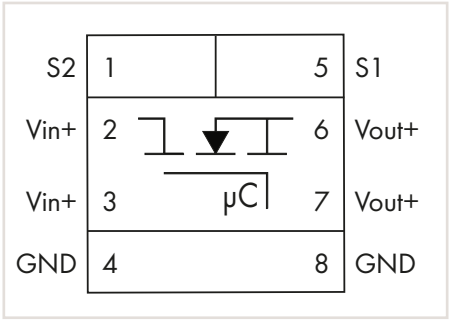


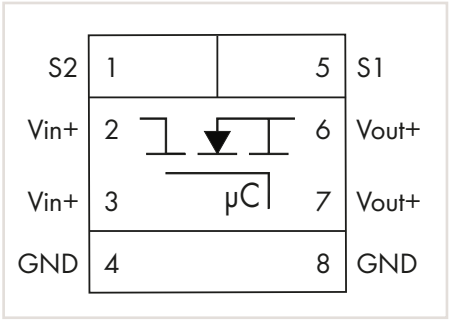
Electronic circuit breaker, *EPSITRON*®, 1-channel, 24 VDC, 2 A, communication capability

Item No.	Pack. Unit
787-2861/200-000	1

Specific Electrical Data

Nominal current	1 ADC (fixed setting)	2 ADC (fixed setting)
Voltage drop	20 mV at 1 A	40 mV at 2 A
MTBF	1,263,074 h (per MIL-HDBK-217F2)	1,262,142 h (per MIL-HDBK-217F2)
Ambient operating temperature	–25 … +70 °C	–25 … +70 °C



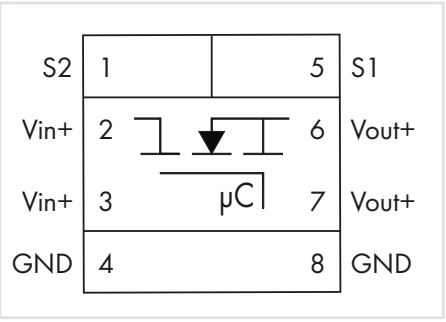


Electronic circuit breaker, *EPSITRON*®, 1-channel, 24 VDC, 4 A, communication capability		
	Item No.	Pack. Unit
	787-2861/400-000	1

Electronic circuit breaker, *EPSITRON*®, 1-channel, 24 VDC, 6 A, communication capability		
	Item No.	Pack. Unit
	787-2861/600-000	1

Specific Electrical Data

Nominal current	4 ADC (fixed setting)	6 ADC (fixed setting)
Voltage drop	80 mV at 1 A	120 mV at 6 A
MTBF	1,258,733 h (per MIL-HDBK-217F2)	1,253,313 h (per MIL-HDBK-217F2)
Ambient operating temperature	–25 … +70 °C	–25 … +60 °C

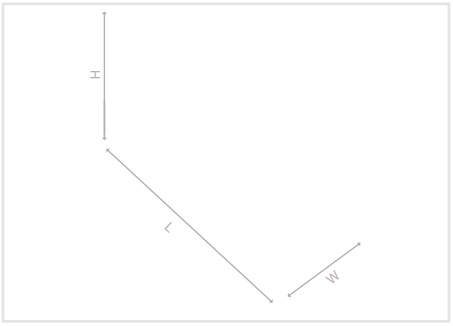


Electronic circuit breaker, *EPSITRON*®, 1-channel, 24 VDC, 8 A, communication capability

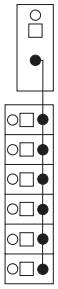
Item No.	Pack. Unit
787-2861/800-000	1

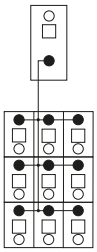
Specific Electrical Data	
Nominal current	8 ADC (fixed setting)
Voltage drop	160 mV at 8 A
MTBF	1,245,816 h (per MIL-HDBK-217F2)
Ambient operating temperature	–25 … +35 °C (module assembly) –25 … +65 °C (distance between modules: 6 mm)

Potential Distribution Modules
830 Series



Technical Data	
Input/Output	
Operating voltage	250 VAC/VDC
Environmental Requirements	
Ambient operating temperature	–20 … +60 °C
Relative humidity	95 % (no condensation permissible)
Connection and Mounting Type	
Connection technology	Input: CAGE CLAMP® (WAGO 745 Series) Output: CAGE CLAMP® (WAGO 739 Series)
General Specifications	
Standards/Approvals	cULus 61010-2-201

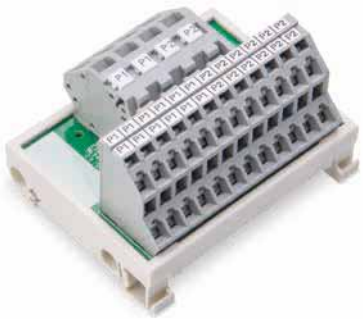


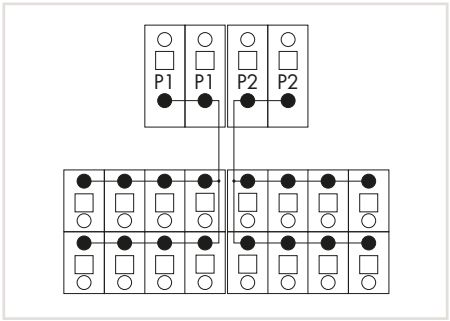


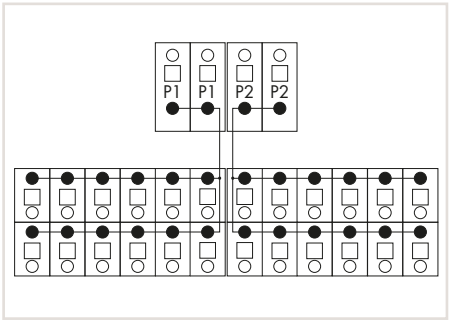
Potential distribution module, 1 potential, with 1 input clamping point, conductor cross-section up to 16 mm², with 6 output clamping points, conductor cross-section up to 2.5 mm²		
Color	Item No.	Pack. Unit
gray	830-800/000-302	10
blue	830-800/000-302/000-006	10

Potential distribution module, 1 potential, with 1 input clamping point, conductor cross-section up to 16 mm², with 9 output clamping points, conductor cross-section up to 2.5 mm²		
Color	Item No.	Pack. Unit
gray	830-800/000-303	10

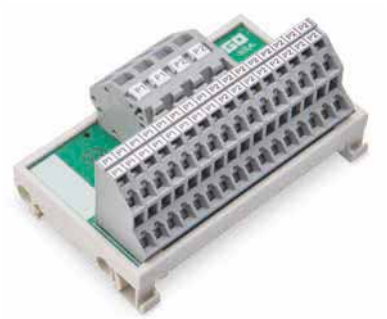
Specific Technical Data		
Max. total current	65 A	65 A
Max. current per connection	12 A	10 A
Conductor range	Input: 0.2 … 16 mm² / 24 … 6 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.2 … 16 mm² / 24 … 6 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 8 … 9 mm / 0.31 … 0.35 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	21 x 49 x 85, height from upper-edge of DIN-rail	21 x 62 x 85, height from upper-edge of DIN-rail
Weight	51 g	57

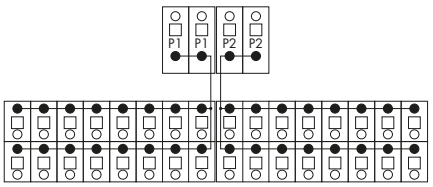


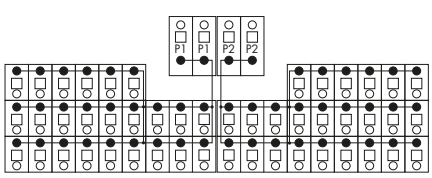




	Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², each with 8 output clamping points, conductor cross-section up to 2.5 mm²	Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², each with 12 output clamping points, conductor cross-section up to 2.5 mm²
Color	gray	gray
Item No.	830-800/000-305	830-800/000-306
Pack. Unit	6	6
Specific Technical Data		
Max. total current	30 A	30 A
Max. current per connection	10 A	10 A
Conductor range	Input: 0.2 … 6 mm² / 24 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.2 … 6 mm² / 24 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	49 x 38 x 55, height from upper-edge of DIN-rail	69 x 38 x 55, height from upper-edge of DIN-rail
Weight	75 g	91







Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², each with 16 output clamping points, conductor cross-section up to 2.5 mm²

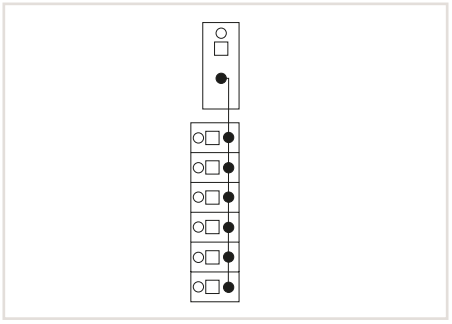
Color	Item No.	Pack. Unit
gray	830-800/000-307	6

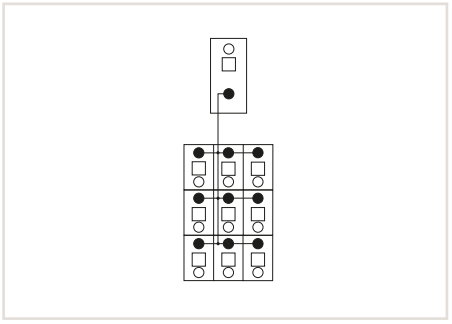
Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², each with 24 output clamping points, conductor cross-section up to 2.5 mm²

Color	Item No.	Pack. Unit
gray	830-800/000-308	6

Specific Technical Data

Max. total current	30 A	30 A
Max. current per connection	10 A	10 A
Conductor range	Input: 0.2 … 6 mm² / 24 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.2 … 6 mm² / 24 … 6 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	89 x 38 x 55, height from upper-edge of DIN-rail	102 x 38 x 55, height from upper-edge of DIN-rail
Weight	112 g	141





Potential distribution module,
1 potential, with 1 input clamping point, conductor cross-section up to 16 mm², with lever, with 6 output clamping points, conductor cross-section up to 2.5 mm²

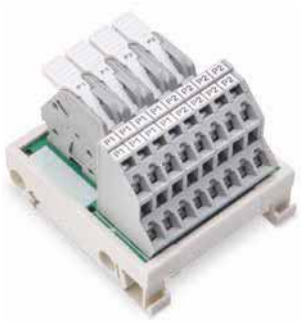
Color	Item No.	Pack. Unit
gray	830-800/000-312	10
blue	830-800/000-312/ 000-006	10

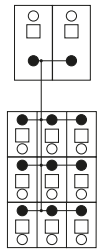
Potential distribution module,
1 potential, with 1 input clamping point, conductor cross-section up to 16 mm², with lever, with 9 output clamping points, conductor cross-section up to 2.5 mm²

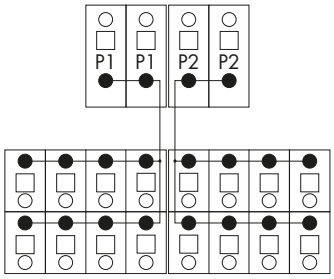
Color	Item No.	Pack. Unit
gray	830-800/000-313	10

Specific Technical Data

Max. total current	65 A	65 A
Max. current per connection	12 A	10 A
Conductor range	Input: 1.5 … 16 mm² / 16 … 6 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 1.5 … 16 mm² / 16 … 6 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 12 … 13 mm / 0.47 … 0.51 inch Output: 8 … 9 mm / 0.31 … 0.35 inch	Input: 12 … 13 mm / 0.47 … 0.51 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	21 x 49 x 85, height from upper-edge of DIN-rail	21 x 62 x 85, height from upper-edge of DIN-rail
Weight	51 g	57







Potential distribution module,
1 potential, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, with 9 output clamping points, conductor cross-section up to 2.5 mm²

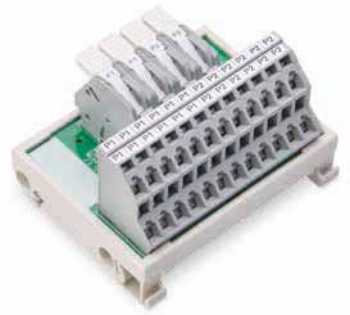
Color	Item No.	Pack. Unit
gray	830-800/000-314	10

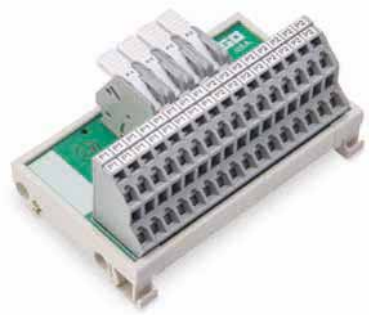
Potential distribution module,
2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, each with 8 output clamping points, conductor cross-section up to 2.5 mm²

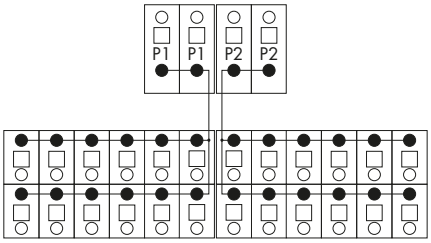
Color	Item No.	Pack. Unit
gray	830-800/000-315	10

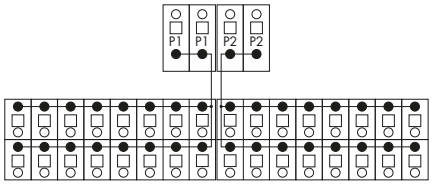
Specific Technical Data

Max. total current	30 A	30 A
Max. current per connection	10 A	10 A
Conductor range	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 mm / 0.43 inch Output: 5 … 6 mm / 0.2 … 0.24 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	21 x 62 x 85, height from upper-edge of DIN-rail	49 x 38 x 55, height from upper-edge of DIN-rail
Weight	56 g	76









Potential distribution module,
2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, each with 12 output clamping points, conductor cross-section up to 2.5 mm²

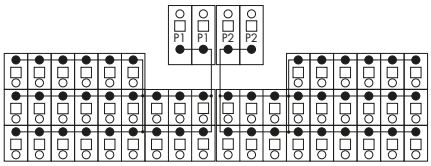
Color	Item No.	Pack. Unit
gray	830-800/000-316	6

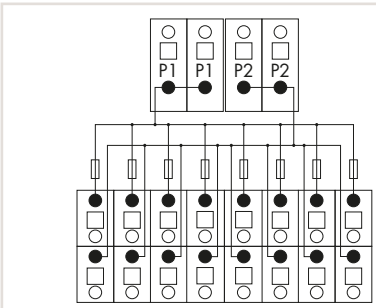
Potential distribution module,
2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, each with 16 output clamping points, conductor cross-section up to 2.5 mm²

Color	Item No.	Pack. Unit
gray	830-800/000-317	6

Specific Technical Data

Max. total current	30 A	30 A
Max. current per connection	10 A	10 A
Conductor range	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	69 x 38 x 55, height from upper-edge of DIN-rail	89 x 38 x 55, height from upper-edge of DIN-rail
Weight	97 g	108





Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, each with 24 output clamping points, conductor cross-section up to 2.5 mm²		
Color	**Item No.**	Pack. Unit
gray	**830-800/000-318**	3

Potential distribution module, 2 potentials, with 2 input clamping points, conductor cross-section up to 6 mm², with levers, each with 8 output clamping points, conductor cross-section up to 2.5 mm², with fuse		
Color	**Item No.**	Pack. Unit
gray	**830-800/000-319**	3

Specific Technical Data

Max. total current	30 A	30 A
Max. current per connection	10 A	6.3 A
Conductor range	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG	Input: 0.5 … 6 mm² / 20 … 10 AWG Output: 0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch	Input: 11 … 12 mm / 0.43 … 0.47 inch Output: 5 … 6 mm / 0.2 … 0.24 inch
Dimensions (mm) W x H x D	102 x 53 x 55, height from upper-edge of DIN-rail	98 x 48 x 106, height from upper-edge of DIN-rail
Weight	145 g	163

Micro-WSB Inline Markers

Micro-WSB Inline markers, plain, 2,000 markers (4 mm) per reel, not stretchable			
for:	Color	Item No.	Pack. Unit
Modular Empty Housing, 2857 Series	○ white	2009-141	1

Micro-WSB Inline markers are compatible with 2857 Series Modular Empty Housings.

Circuit ID Labels

Circuit ID labels, self-adhesive, plain, 750 labels per roll, single-row		
Color	Item No.	Pack. Unit
◯ white	210-813	1

JUMPFLEX® Signs and Symbols

Signal Conditioners and Isolation Amplifiers


Isolation amplifier


Temperature signal conditioner


Threshold value switch


Frequency signal conditioner


Potentiometer signal conditioner


Resistance signal conditioner


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 switch


Interface configuration software


Interface configuration app


Interface configuration display


Push/slide switch

General


Temperature sensors


Connection technology


Supply voltage

Input Signals


Frequencies


Potentiometer


Resistors


Current


Voltage


Bipolar signals (current and voltage)

Output Signals


Current


Voltage


Bipolar signals (current and voltage)

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