

INTERFACE ELECTRONICS

Product Overview ...

... adapt best!



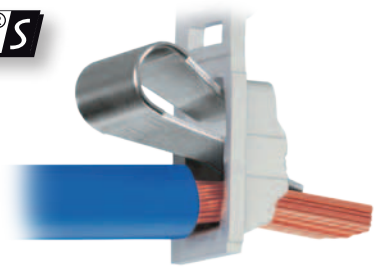
WAGO®
INNOVATIVE CONNECTIONS



The Interface Electronic overview contains leading technologies from the comprehensive range of WAGO interface products.



CAGE CLAMP®S



The CAGE CLAMP®S technology offers the same quality and handling features as CAGE CLAMP® connection, however with a significant additional benefit: Solid and stranded conductors that are rigid enough, as well as fine-stranded conductors with ferrules 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.



solid



fine-stranded



ferruled

Content

JUMPFLEX®

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Advanced Power Supply System

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Relays and Optocouplers

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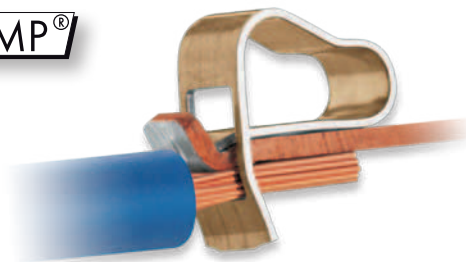
Interface Modules

Setting Our Sights on Variety

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WAGO Termination Technology

CAGE CLAMP®



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 the 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.

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.



solid



fine-stranded



ferruled

JUMPFLEX® Transducers – 857 Series

One Profile, Many Possibilities

Housed in a 6 mm-wide package, the 857 Series JUMPFLEX® Transducers feature eight CAGE CLAMP® S connections and a common profile. This enables usage of the same, flexible push-in jumpers for the entire JUMPFLEX® line – every conductor entry has a corresponding jumper slot.

These system features provide a comprehensive and successful approach to signal conditioning. Additional features include: “safe isolation,”

extended operating temperature range and calibrated configurable signals. Combined with excellent technical specifications, these features create advanced products, providing synergies and savings potential.



Isolation amplifiers



Current transducers



Temperature transducers














Transducers with specialty functions



Accessories



Isolation Amplifiers

Description			WAGO Item No.	EAN No.	Configuration																									
					DIP Switch	FDT/DTM																								
Isolation amplifier, configurable, with zero/span adjustment		<table border="1"> <tr> <td>IN+</td> <td>1</td> <td>IN</td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>U_s+</td> <td>3</td> <td></td> <td>POWER</td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 3</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>GND 3</td> </tr> </table>	IN+	1	IN	OUT	5	OUT+	GND 1	2			6	GND 2	U _s +	3		POWER	7	U _s +	GND 3	4			8	GND 3	857-400	4045454471293	x	
IN+	1	IN	OUT	5	OUT+																									
GND 1	2			6	GND 2																									
U _s +	3		POWER	7	U _s +																									
GND 3	4			8	GND 3																									
Isolation amplifier, configurable, with digital output (DO)		<table border="1"> <tr> <td>IN+</td> <td>1</td> <td>IN</td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td>U_I</td> <td>U_I</td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>DO</td> <td>3</td> <td>DO</td> <td>POWER</td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 3</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>GND 3</td> </tr> </table>	IN+	1	IN	OUT	5	OUT+	GND 1	2	U _I	U _I	6	GND 2	DO	3	DO	POWER	7	U _s +	GND 3	4			8	GND 3	857-401	4045454828509	x	x
IN+	1	IN	OUT	5	OUT+																									
GND 1	2	U _I	U _I	6	GND 2																									
DO	3	DO	POWER	7	U _s +																									
GND 3	4			8	GND 3																									
Universal isolation amplifier		<table border="1"> <tr> <td>U+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>I+</td> <td>2</td> <td>IN</td> <td>U_I</td> <td>6</td> <td>OUT-</td> </tr> <tr> <td>I+</td> <td>3</td> <td>U_I</td> <td></td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>I-/U-</td> <td>4</td> <td></td> <td>POWER</td> <td>8</td> <td>GND 3</td> </tr> </table>	U+	1		OUT	5	OUT+	I+	2	IN	U _I	6	OUT-	I+	3	U _I		7	U _s +	I-/U-	4		POWER	8	GND 3	857-402	4050821099772	x	Push/slide switch
U+	1		OUT	5	OUT+																									
I+	2	IN	U _I	6	OUT-																									
I+	3	U _I		7	U _s +																									
I-/U-	4		POWER	8	GND 3																									
Bipolar isolation amplifier		<table border="1"> <tr> <td>U+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>U-</td> <td>2</td> <td>IN</td> <td>U_I</td> <td>6</td> <td>OUT-</td> </tr> <tr> <td>I+</td> <td>3</td> <td>U_I</td> <td></td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>I-</td> <td>4</td> <td></td> <td>POWER</td> <td>8</td> <td>GND</td> </tr> </table>	U+	1		OUT	5	OUT+	U-	2	IN	U _I	6	OUT-	I+	3	U _I		7	U _s +	I-	4		POWER	8	GND	857-409	4045454828493	x	
U+	1		OUT	5	OUT+																									
U-	2	IN	U _I	6	OUT-																									
I+	3	U _I		7	U _s +																									
I-	4		POWER	8	GND																									
Isolation amplifiers, fixed for current or voltage signals		<table border="1"> <tr> <td>IN+</td> <td>1</td> <td>IN</td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>U_s+</td> <td>3</td> <td></td> <td>POWER</td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 3</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>GND 3</td> </tr> </table>	IN+	1	IN	OUT	5	OUT+	GND 1	2			6	GND 2	U _s +	3		POWER	7	U _s +	GND 3	4			8	GND 3	857-411	4045454471224		
			IN+	1	IN	OUT	5	OUT+																						
			GND 1	2			6	GND 2																						
			U _s +	3		POWER	7	U _s +																						
			GND 3	4			8	GND 3																						
			857-412	4045454471309																										
857-413	4045454609870																													
857-414	4045454609863																													
857-415	4045454609856																													
857-416	4045454609849																													
Repeater power supply, configurable, with current and voltage output		<table border="1"> <tr> <td>U_{sensor}+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>IN</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>GND 1</td> <td>3</td> <td>IN</td> <td></td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 1</td> <td>4</td> <td></td> <td>POWER</td> <td>8</td> <td>GND 3</td> </tr> </table>	U _{sensor} +	1		OUT	5	OUT+	IN	2			6	GND 2	GND 1	3	IN		7	U _s +	GND 1	4		POWER	8	GND 3	857-420	4045454471330	x	
U _{sensor} +	1		OUT	5	OUT+																									
IN	2			6	GND 2																									
GND 1	3	IN		7	U _s +																									
GND 1	4		POWER	8	GND 3																									
HART repeater power supply		<table border="1"> <tr> <td>U_{sensor}+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>IN</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>GND 1</td> <td>3</td> <td>IN</td> <td></td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 1</td> <td>4</td> <td></td> <td>POWER</td> <td>8</td> <td>GND 3</td> </tr> </table>	U _{sensor} +	1		OUT	5	OUT+	IN	2			6	GND 2	GND 1	3	IN		7	U _s +	GND 1	4		POWER	8	GND 3	857-421	4045454471347		
U _{sensor} +	1		OUT	5	OUT+																									
IN	2			6	GND 2																									
GND 1	3	IN		7	U _s +																									
GND 1	4		POWER	8	GND 3																									
Signal splitter with 2 configurable current outputs		<table border="1"> <tr> <td>IN+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>OUT 1+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td>IN</td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>OUT 2+</td> <td>3</td> <td></td> <td>POWER</td> <td>7</td> <td>U_s+</td> </tr> <tr> <td>GND 4</td> <td>4</td> <td>OUT 2</td> <td></td> <td>8</td> <td>GND 3</td> </tr> </table>	IN+	1		OUT	5	OUT 1+	GND 1	2	IN		6	GND 2	OUT 2+	3		POWER	7	U _s +	GND 4	4	OUT 2		8	GND 3	857-423	4045454471316	x	
IN+	1		OUT	5	OUT 1+																									
GND 1	2	IN		6	GND 2																									
OUT 2+	3		POWER	7	U _s +																									
GND 4	4	OUT 2		8	GND 3																									
Loop-powered isolation amplifier		<table border="1"> <tr> <td>U+</td> <td>1</td> <td></td> <td>OUT</td> <td>5</td> <td>U_s+</td> </tr> <tr> <td>U-</td> <td>2</td> <td>IN</td> <td>420mA</td> <td>6</td> <td>OUT 1</td> </tr> <tr> <td>I+</td> <td>3</td> <td>U_I</td> <td>N.C.</td> <td>7</td> <td>N.C.</td> </tr> <tr> <td>I-</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>N.C.</td> </tr> </table>	U+	1		OUT	5	U _s +	U-	2	IN	420mA	6	OUT 1	I+	3	U _I	N.C.	7	N.C.	I-	4			8	N.C.	857-450	4045454828479	x	
U+	1		OUT	5	U _s +																									
U-	2	IN	420mA	6	OUT 1																									
I+	3	U _I	N.C.	7	N.C.																									
I-	4			8	N.C.																									
Passive isolator, 1-channel		<table border="1"> <tr> <td>IN+</td> <td>1</td> <td>IN</td> <td>OUT</td> <td>5</td> <td>OUT+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>N.C.</td> <td>3</td> <td></td> <td></td> <td>7</td> <td>N.C.</td> </tr> <tr> <td>N.C.</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>N.C.</td> </tr> </table>	IN+	1	IN	OUT	5	OUT+	GND 1	2			6	GND 2	N.C.	3			7	N.C.	N.C.	4			8	N.C.	857-451	4045454471323		
IN+	1	IN	OUT	5	OUT+																									
GND 1	2			6	GND 2																									
N.C.	3			7	N.C.																									
N.C.	4			8	N.C.																									
Passive isolator, 2-channel		<table border="1"> <tr> <td>IN 1+</td> <td>1</td> <td>IN 1</td> <td>OUT 1</td> <td>5</td> <td>OUT 1+</td> </tr> <tr> <td>GND 1</td> <td>2</td> <td></td> <td></td> <td>6</td> <td>GND 2</td> </tr> <tr> <td>IN 2+</td> <td>3</td> <td>IN 2</td> <td>OUT 2</td> <td>7</td> <td>OUT 2+</td> </tr> <tr> <td>GND 3</td> <td>4</td> <td></td> <td></td> <td>8</td> <td>GND 4</td> </tr> </table>	IN 1+	1	IN 1	OUT 1	5	OUT 1+	GND 1	2			6	GND 2	IN 2+	3	IN 2	OUT 2	7	OUT 2+	GND 3	4			8	GND 4	857-452	4045454471354		
IN 1+	1	IN 1	OUT 1	5	OUT 1+																									
GND 1	2			6	GND 2																									
IN 2+	3	IN 2	OUT 2	7	OUT 2+																									
GND 3	4			8	GND 4																									

Ambient operating temperature for all devices: - 25 °C ... +70 °C

Input Signal (configurable and calibrated)	Output Signal (configurable and calibrated)	Load Impedance	Max. Operating Frequency	Supply Voltage U_N
Current: 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V	Current: 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 VDC
Current: -20 ... +20 mA Voltage: -10 ... +10 V 0 ... +30 V	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	125 Hz	24 VDC
Current: $\pm 0.3 \text{ mA}$ to $\pm 100 \text{ mA}$ 0 ... 0.3 mA to 0 ... 100 mA Voltage: $\pm 60 \text{ mV}$ to $\pm 200 \text{ V}$ 0 ... 60 mV to $\pm 0 \dots 200 \text{ V}$	Current: $\pm 10 \text{ mA}$, 0 ... 10 mA, 2 ... 10 mA, $\pm 20 \text{ mA}$, 0 ... 20 mA, 4 ... 20 mA Voltage: $\pm 5 \text{ V}$, 0 ... 5 V, 1 ... 5 V, $\pm 10 \text{ V}$, 0 ... 10 V, 2 ... 10 V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 VDC
Current: $\pm 10 \text{ mA}$, 0 ... 10 mA, 2 ... 10 mA, $\pm 20 \text{ mA}$, 0 ... 20 mA, 4 ... 20 mA Voltage: $\pm 5 \text{ V}$, 0 ... 5 V, 1 ... 5 V, $\pm 10 \text{ V}$, 0 ... 10 V, 2 ... 10 V	Current: $\pm 10 \text{ mA}$, 0 ... 10 mA, 2 ... 10 mA, $\pm 20 \text{ mA}$, 0 ... 20 mA, 4 ... 20 mA Voltage: $\pm 5 \text{ V}$, 0 ... 5 V, 1 ... 5 V, $\pm 10 \text{ V}$, 0 ... 10 V, 2 ... 10 V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 VDC
0 (4) ... 20 mA	0 (4) ... 20 mA	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	100 Hz	24 VDC
0 (2) ... 10 V	0 (2) ... 10 V			
0 ... 10 V	0 ... 20 mA			
0 ... 10 V	4 ... 20 mA			
0 ... 20 mA	0 ... 10 V			
4 ... 20 mA	0 ... 10 V			
0 ... 20 mA, 4 ... 20 mA	Current: 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V	600 Ω (I output) 2 k Ω (U output)	100 Hz	24 VDC
4 ... 20 mA	4 ... 20 mA	230 Ω ... 600 Ω	100 Hz HART signal $\geq 2.5 \text{ kHz}$	24 VDC
Current: 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V	2 x 0(4) ... 20 mA	2 x 300 Ω	100 Hz / > 1 kHz (configurable via DIP switch)	24 VDC
Voltage: $\pm 5 \text{ V}$, 0 ... 5 V, 1 ... 5 V, $\pm 10 \text{ V}$, 0 ... 10 V, 2 ... 10 V, $\pm 20 \text{ V}$, $\pm 1 \text{ V}$, 0 ... 1 V, +2 V, 0 ... 2 V Current: $\pm 5 \text{ mA}$, 0 ... 5 mA, $\pm 10 \text{ mA}$, 0 ... 10 mA, 2 ... 10 mA, $\pm 20 \text{ mA}$, 0 ... 20 mA, 4 ... 20 mA	4 ... 20 mA Loop-powered (for active input cards)	$\leq 600 \Omega$	30 Hz / 100 Hz	
0(4) ... 20 mA	0(4) ... 20 mA	600 Ω	100 Hz	
2 x 0(4) ... 20 mA	2 x 0(4) ... 20 mA	600 Ω	100 Hz	

Current Transducers

Description			WAGO Item No.	EAN No.	Configuration	
					DIP Switch	FDT/DTM
Current transducer with digital output (DO)		IN 1A (GND 1) 1 IN 5 OUT+ IN 5A (GND 1) 2 IN 6 GND 2 DO (GND 3) 3 DO 7 Us+ GND 1 4 POWER 8 GND 3	857-550	4050821226734	x	
Rogowski transducer, with digital output (DO)		RC1+ (GND 1) 1 IN 5 OUT+ RC2+ (GND 1) 2 IN 6 GND 2 DO (GND 3) 3 DO 7 Us+ GND 1 4 GND+ 8 GND 3	857-552	4050821476917	x	

Temperature Transducers

Description			WAGO Item No.	EAN No.	Configuration	
					DIP Switch	FDT/DTM
Temperature transducer for Pt100, Pt200, Pt500 and Pt1000, as well as resistors 0 ... 1 kOhm; 0 ... 4.5 kOhm		1 IN 5 OUT+ 2 IN 6 GND 1 3 IN 7 Us+ 4 IN 8 GND 2	857-800	4045454470128	x	
Temperature transducer for Pt100, Pt200, Pt500 and Pt1000, as well as resistors 0 ... 1 kOhm; 0 ... 4.5 kOhm		1 IN 5 OUT+ 2 IN 6 GND 1 3 IN 7 Us+ 4 IN 8 GND 2	857-801	4045454502713	x	x
Temperature transducer for thermocouples of type J, K		TC+ 1 IN 5 OUT+ TC- 2 IN 6 GND 1 3 IN 7 Us+ 4 IN 8 GND 2	857-810	4045454470135	x	
Temperature transducer for thermocouples of type J, K, E, R, N, S, T, B, S		TC+ 1 IN 5 OUT+ TC- 2 IN 6 GND 1 3 IN 7 Us+ 4 IN 8 GND 2	857-811	4045454502751	x	x
Ni transducer for Ni 100, Ni 120, Ni 200, Ni 500, Ni 1000		1 IN 5 OUT+ 2 IN 6 GND 1 3 IN 7 Us+ 4 IN 8 GND 2	857-818	4050821099789	x	

Ambient operating temperature for all devices: - 25 °C ... +70 °C

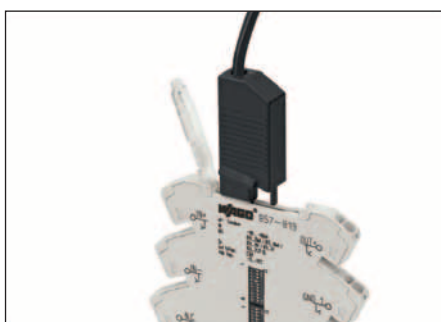
*Temperature range restrictions may occur.

Input Signal	Output Signal	Load Impedance	Supply Voltage U_N
AC/DC 0 ... 1 A; AC/DC 0 ... 5 A	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output)* $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Rogowski coils (500 A / 2000 A)	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	Current $\leq 600 \Omega$, Voltage $\geq 1000 \Omega$	24 VDC

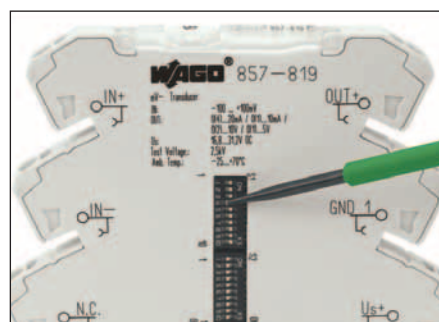
CAGE CLAMP® S

Input Signal	Sensor Connection	Sensor Temperature Range	Output Signal	Load Impedance	Supply Voltage U_N
Pt sensors Pt100, Pt200, Pt500, Pt1000 Resistors 0 ... 1 k Ω ; 0 ... 4.5 k Ω	2-, 3-, 4-wire connection (switchable)	-200°C ... +850°C	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Pt sensors Pt100, Pt200, Pt500, Pt1000 Resistors 0 ... 1 k Ω ; 0 ... 4.5 k Ω	2-, 3-, 4-wire connection (switchable)	-200°C ... +850°C	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Thermocouples Type J, Type K		Type J: -150°C ... +1200°C Type K: -150°C ... +1350°C	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Thermocouples Type J, K, E, R, N, S, T, B, S		Type J: -150°C ... +1200°C Type K: -150°C ... +1350°C	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Ni sensors Ni 100, Ni 120, Ni 200, Ni 500, Ni 1000	2-, 3-, 4-wire connection (switchable)		Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC

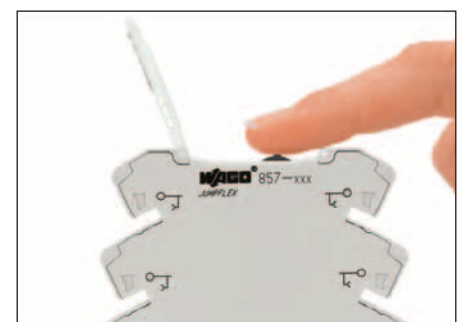
Configuration Options:



DIP switch









Configuration tool (FDT/DTM)









Push/slide switch

Transducers with Specialty Functions

Description			WAGO Item No.	EAN No.	Configuration	
					DIP Switch	FDT/DTM
Millivolt transformer with ranges -100 mV ... +100 mV and 0 mV ... 1000 mV		IN+ 1 IN 2 mV IN- 2 N.C. 3 N.C. 4 OUT U,I 5 OUT U,I 6 POWER 7 POWER 8 OUT+ 5 GND 1 6 Us+ 7 GND 2 8	857-819	4045454665975	x	x
KTY transducer, with digital output (DO)		IN+ 1 IN- 2 KTY DO 3 GND 2 4 OUT U,I 5 OUT U,I 6 POWER 7 POWER 8 OUT+ 5 GND 1 6 Us+ 7 GND 2 8	857-820	4050821053002	x	
Potipotension transducer, with digital output (DO)		 1 2 IN DO (GND 2) 4 OUT U,I 5 OUT U,I 6 POWER 7 POWER 8 OUT+ 5 GND 1 6 Us+ 7 GND 2 8	857-809	4050821480761	x	Push/ slide switch
Frequency transducer		+8,2V(Namur) 1 f _{IN} 2 GND 1 3 NPN/PNP 4 OUT U,I 5 OUT U,I 6 POWER 7 POWER 8 OUT+ 5 GND 2 6 Us+ 7 GND 3 8	857-500	4050821226741	x	
Threshold value switch with digital output (DO), analog input and changeover relay output		DO 1 DO 12 2 11 3 14 4 IN U,I 5 IN U,I 6 POWER 7 POWER 8 IN+ 5 GND 1 6 Us+ 7 GND 2 8	857-531	4045454885229	x	FDT/DTM + Push/ slide switch

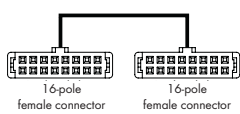

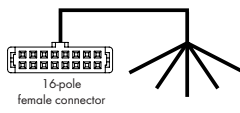

Ambient operating temperature for all devices: - 25 °C ... +70 °C

Accessories


Push-In Type Jumper Bars, Operating Tool, WAGO USB Communication Cable, Marking		WAGO Item No.	EAN No.	
Push-in type jumper bars, light gray, insulated, 18 A		2-pole	859-402	4044918506434
		3-pole	859-403	4044918507240
		4-pole	859-404	4044918507820
		5-pole	859-405	4044918508155
		6-pole	859-406	4044918508278
		7-pole	859-407	4044918508339
		8-pole	859-408	4044918508391
		9-pole	859-409	4044918508421
		10-pole	859-410	4044918508513
		Item no. suffix for colored push-in type jumper bars		yellow
		red	... /000-005	upon request
		blue	... /000-006	upon request
Comb-style jumper bar, insulated	(Jumper for clamping units)	2-pole	281-482	4044918523042
Operating tool with partially insulated shaft	Type 2, (3.5 x 0.5) mm blade		210-720	4045454937393
WAGO USB communication cable	Connection between PC (notebook) and service interface of 857 Series transducers		750-923	4045454571641
WAGOframe	FDT frame application for setting parameters, commissioning, and diagnosing devices with DTM device driver		759-370	4045454589622
Marking	WMB Multi marking system		see eshop.wago.com	
Supply and through module		Signal+ 1 GND 2 Us+ 3 GND 4 Signal+ 5 GND 6 Us+ 7 GND 8	857-979	4050821088189

Input Signal	Sensor Connection	Output Signal	Load Impedance	Supply Voltage U_N
-100 mV ... +100 mV, 0 mV ... 200 mV to 0 mV ... 1000 mV (in steps of 100)		Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
KTY sensors *	2-wire connection	Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Potentiometer and resistances up to 100 k Ω		Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Frequency signals, NAMUR, NPN or PNP sensors 0.1 Hz up to 120 kHz		Current: 0 ... 10 mA, 2 ... 10 mA, 0 ... 20 mA, 4 ... 20 mA Voltage: 0 ... 5V, 1 ... 5V, 0 ... 10V, 2 ... 10V	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k} \Omega$ (U output)	24 VDC
Current: -20...+20 mA Voltage: -10...+10V, 0...+30V		1 changeover contact, 6 A digital output		24 VDC

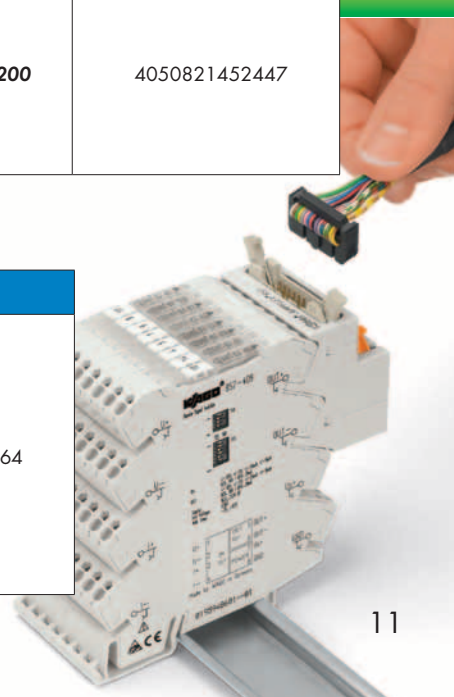
* KTY81-110, KTY81-120, KTY81-150, KTY82-110, KTY82-120, KTY82-150, KTY81-121, KTY82-121, KTY81-122, KTY82-122, KTY81-210, KTY81-220, KTY82-210, KTY82-220, KTY81-221, KTY82-221, KTY81-222, KTY82-222, KTY81-250, KTY82-250, KTY83-110, KTY83-120, KTY83-150, KTY83-121, KTY83-122, KTY83-151, KTY84-130, KTY84-150, KTY84-151, KTY16, KTY19, ST13, ST20

WAGO Ribbon Cables			WAGO Item No.	EAN No.
WAGO ribbon cable, 16-pin/16-pin, 2 m long			706-753/301-200	4050821038832
WAGO ribbon cable, 16-pin, with open end, 2 m long			706-100/1602-200	4050821452447

Additional cable types and lengths available upon request.

WAGO Interface Adapter		WAGO Item No.	EAN No.
Interface adapter with 16-pin ribbon cable connector according to DIN 41651, for use with transducers		857-980	4045454995164

Application example:



EPSITRON® – Advanced Power Supply System

High-Performance Meets High-Efficiency

The **EPSITRON**® power supply system from WAGO supports a wide range of applications with various devices.

While the ECO Power Supplies handle economical standard supply with 24V direct current, **COMPACT** power supplies are decentralized power supplies with 12 and 24V and low design height.

CLASSIC power supplies provide different supply voltages (12V, 24V, and 48V) from which users can choose. If power peaks are anticipated, the **PRO** Power Supply with PowerBoost is the first choice, optionally available with monitoring function and display.

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

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



EPSITRON® CLASSIC Power

Single-phase power supplies with wide input voltage range and 12V, 24V, 30.5V or 48V output voltages.



EPSITRON® COMPACT Power

Low-profile, single-phase power supplies with wide input voltage range, as well as 12V and 24V output voltages.



EPSITRON® ECO Power

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



Additional components and accessories

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

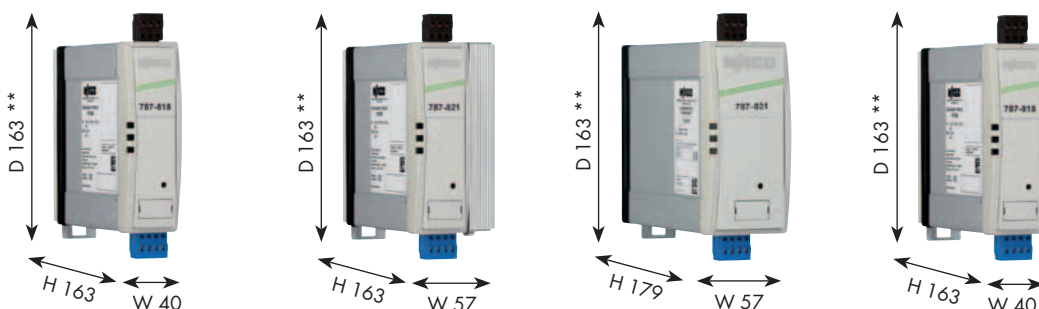


EPSITRON® PRO Power

Professional and Efficient Power Supplies with Extra Power

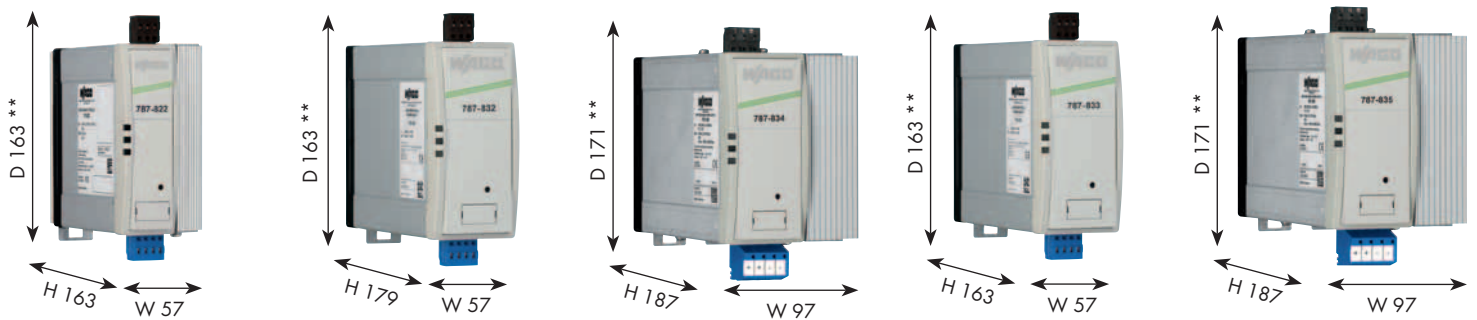
Applications with high output requirements call for professional power supplies capable of reliably handling power peaks. These applications call for EPSITRON® PRO Power Supplies, which provide 12, 24 or 48 VDC in a slim vertical- or horizontal-mount housing. The PRO Power family includes devices for currents ranging from 3 to 40 A and having up to 94% efficiency.

In case of overload or short circuit, TopBoost delivers a multiple of the nominal current at the output for a maximum of 50 ms, so that traditional circuit breakers for DC protection can also be used. At starting torque and during fast switching operations, PowerBoost provides 200% of the output power for 4 sec. Devices with Line-Monitor, for comfortable monitoring of input and output variables are also available as an option.



WAGO 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 VDV	85 ... 264 VAC; 120 ... 350 VDC	85 ... 264 VAV; 120 ... 350 VDC
Nominal output voltage	12 VDC, SELV	12 VDC, SELV	12 VDC, SELV	24 VDC, SELV
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 ($V_o > 0.85 \times 12V$) Red LED ($V_o < 0.85 \times 12V$) Relay contact DC OK (change-over contact)	Green LED ($V_o > 0.85 \times 12V$) Red LED ($V_o < 0.85 \times 12V$) Relay contact DC OK (change-over contact)	Green LED ($V_o > 0.85 \times 12V$) Red LED ($V_o < 0.85 \times 12V$) Relay contact DC OK (change-over contact)	Green LED ($V_o > 0.85 \times 24V$) Red LED ($V_o < 0.85 \times 24V$) Relay contact DC OK (change-over 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	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
Storage temperature	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
Dimensions (mm) W x H x D** Height from upper-edge of DIN 35 rail	40 x 163 x 163	57 x 163 x 163	57 x 179 x 163	40 x 163 x 163
Weight	800 g	1100 g	1300 g	800 g
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508

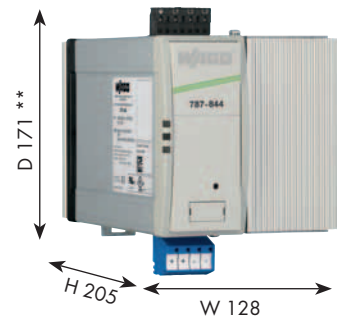
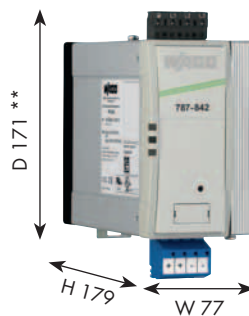
** D = 127 mm, without pluggable female connectors



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, SELV	24 VDC, SELV	24 VDC, SELV	48 VDC, SELV	48 VDC, SELV
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 24V) Red LED (Vo < 0.85 x 24V) Relay contact DC OK (change-over contact)	Green LED (Vo > 0.85 x 24V) Red LED (Vo < 0.85 x 24V) Relay contact DC OK (change-over contact)	Green LED (Vo > 0.85 x 24V) Red LED (Vo < 0.85 x 24V) Relay contact DC OK (change-over contact)	Green LED (Vo > 0.85 x 48V) Red LED (Vo < 0.85 x 48V) Relay contact DC OK (change-over contact)	Green LED (Vo > 0.85 x 48V) Red LED (Vo < 0.85 x 48V) Relay contact DC OK (change-over 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	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +70°C
-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
57 x 163 x 163	57 x 179 x 163	97 x 187 x 171	57 x 179 x 163	97 x 187 x 171
1100 g	1300 g	2300 g	1300 g	2300 g
EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508,	EN 60950, EN 61204-3, UL 60950*, UL 508*	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950*, UL 508*

* pending

EPSITRON® PRO Power



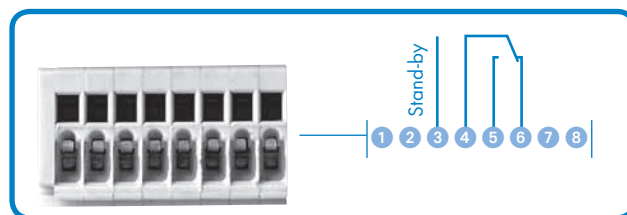
WAGO Item Number	787-840	787-842	787-844
EAN number	4045454909949	4045454909932	4045454909925
Nominal input voltage	2/3 x 400 ... 500 VAC	2/3 x 400 ... 500 VAC	2/3 x 400 ... 500 VAC
Input voltage range (use of DC requires external protection)	340 ... 550 VAC; 480 ... 780 VDC	340 ... 550 VAC; 480 ... 780 VDC	340 ... 550 VAC; 480 ... 780 VDC
Nominal output voltage	24 VDC, SELV	24 VDC, SELV	24 VDC, SELV
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 > 20.4V) Red LED (Vo < 20.4V) Relay contact DC OK (changeover contact)	Green LED (Vo > 20.4V) Red LED (Vo < 20.4V) Relay contact DC OK (changeover contact)	Green LED (Vo > 20.4V) Red LED (Vo < 20.4V) 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	-25°C ... +70°C	-25°C ... +55°C
Storage temperature	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
Dimensions (mm) W x H x D** Height from upper-edge of DIN 35 rail	57 x 179 x 163	77 x 179 x 171	128 x 205 x 171
Weight	1000 g	1300 g	2500 g
Standards/Approvals	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508

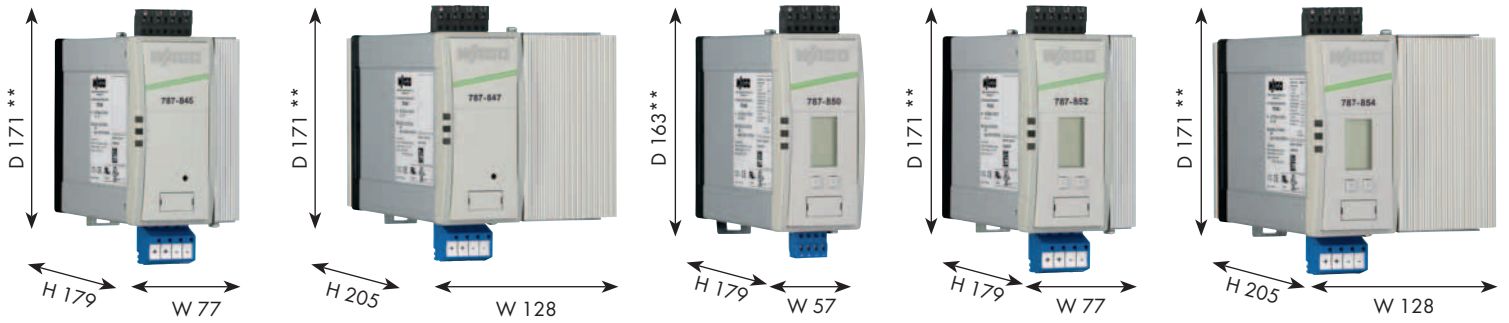
** D = 127 mm, without pluggable female connectors

Potential-Free Signal Contact and Stand-By Input

In the event of undervoltage at the output, the internal relay is deactivated. This error is signaled via a **potential-free change-over contact** (rated 1A at 30 VDC).

By applying an external 10–28.8 VDC voltage at the **stand-by input**, the output is switched off (wear-free) and the power supply remains in an energy-saving stand-by mode with maximum 0.8 W power dissipation. The stand-by input allows targeted switch-off of distributed power supplies without requiring additional switching relays.





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, SELV	48 VDC, SELV	24 VDC, SELV	24 VDC, SELV	24 VDC, SELV
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 25 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 > 36V) Red LED (Vo < 36V)	Green LED (Vo > 36V) Red LED (Vo < 36V)	Green LED (Vo > 20.4V) Yellow LED (warnings) Red LED (errors)	Green LED (Vo > 20.4V) Yellow LED (warnings) Red LED (errors)	Green LED (Vo > 20.4V) Yellow LED (warnings) Red LED (errors)
Relay contact DC OK (change-over contact)	Relay contact DC OK (change-over contact)			
-	-	yes	yes	yes
Switches output off (stand-by operation)	Switches output off (stand-by operation)			
-25°C ... +70°C	-25°C ... +55°C	-25°C ... +70°C	-25°C ... +70°C	-25°C ... +55°C
-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
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
1300 g	2500 g	1000 g	1300 g	2500 g
EN 60950, EN 61204-3, UL 60950*, UL 508*	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508	EN 60950, EN 61204-3, UL 60950, UL 508

* pending

EPSITRON® Communication Cable

PRO Power Supplies feature an RS-232 interface. When paired with the 787-890 Communication Cable, the following devices can connect to a PC or PLC RS-232 interface:

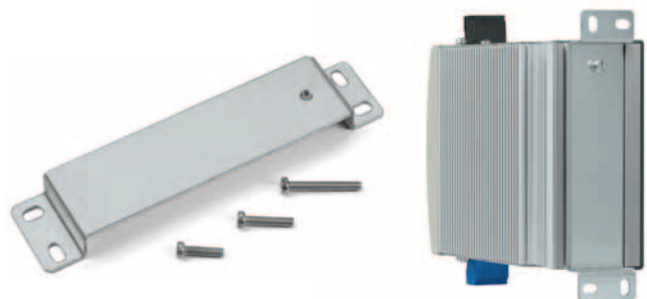
- Integrated LineMonitor (787-850, -852 and -854)
- ECBs (787-860, -861, -862)
- UPS charger and controller (787-870, -875)

When combined with free software – download at www.wago.com/epsitron – users can easily set device parameters and perform diagnostics.

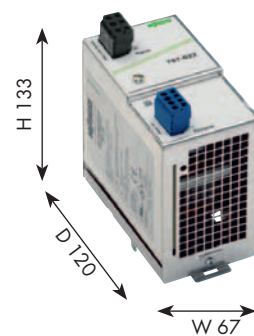
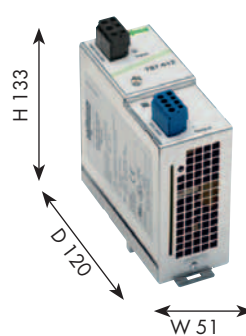
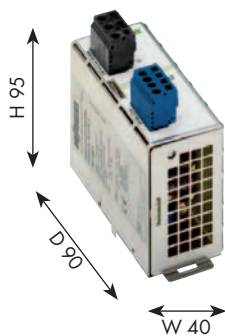
EPSITRON® Wall Mount Adapter

787-895 Wall Mount Adapter secures 787-8xx devices on mounting plate or wall without DIN 35 rail.

The wall mount adapter replaces the rail support of the 787 8xx device. The adapter is secured to the 787 8xx device via provided screws.



EPSITRON® CLASSIC Power

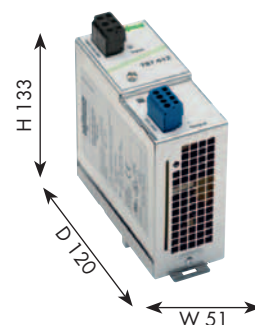


WAGO Item Number	787-601	787-611	787-621
EAN number	4045454435073	4045454435172	4045454435288
Nominal input voltage	100 ... 240 VAC	100 ... 240 VAC	100 ... 240 VAC
Input voltage range	90 ... 264 VAC; 130 ... 300 VDC	90 ... 264 VAC ; 130 ... 300 VDC	90 ... 264 VAC; 130 ... 300 VDC
Nominal output voltage	12 VDC	12 VDC	12 VDC
Output voltage range	11 ... 15 V	11 ... 15 V	11 ... 15 V
Output current	2 A	4 A	8 A
Parallel-connections possible	-	-	-
Efficiency	78% typ.	84% typ.	85% typ.
LED indication	Green LED (DC OK)	Green LED (DC OK)	Green LED (DC OK)
Ambient operating temperature	-10°C ... +70°C	-10°C ... +70°C	-10°C ... +70°C
Dimensions (mm) W x H x D Height from upper-edge of DIN 35 rail	40 x 95 x 90	51 x 133 x 120	67 x 133 x 120
Weight	300 g	690 g	890 g
Standards/Approvals	EN 60950, EN 61204-3, EN 61204-7, GL	EN 60950, EN 61204-3, EN 61204-7, GL	EN 60950, EN 61204-3, EN 61204-7, GL

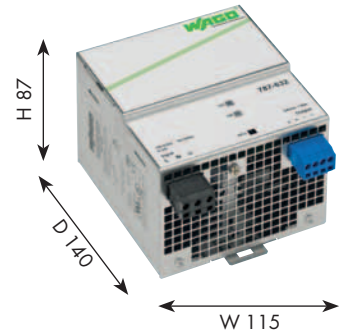
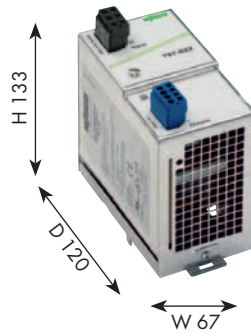
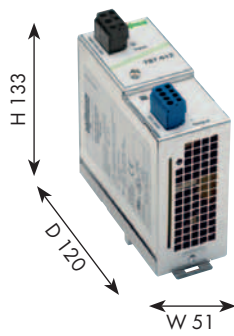
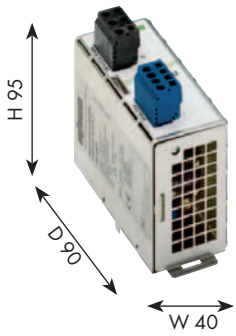
Robust Power Supplies for Various Voltage Ranges

CLASSIC Power Supplies with single-phase wide input voltage range offer 12 V, 24 V, 30.5 V (AS interface), and 48 V output voltages, with nominal output currents ranging from 1.3 A to 10 A.

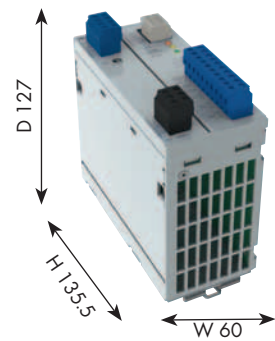
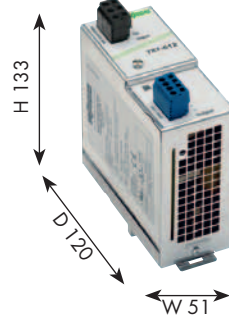
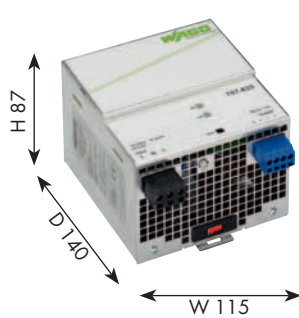
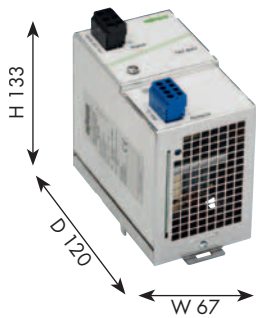
Metal enclosed, pluggable connection technology for pre-wiring, integrated stabilized current characteristic (at 40 W output power), and up to 90% efficiency ensure that these devices are adequate power supplies for industrial use.



WAGO Item Number	787-613
EAN number	4045454435240
Nominal input voltage	100 V ... 240 VAC
Input voltage range	90 V ... 264 VAC; 130 ... 300 VDC
Nominal output voltage	48 VDC
Output voltage range	43.2 ... 52.8 V
Output current	1 A
Parallel-connections possible	yes
Efficiency	85% typ.
LED indication	Green LED (DC OK)
Ambient operating temperature	-10°C ... +70°C
Dimensions (mm) W x H x D Height from upper-edge of DIN 35 rail	51 x 133 x 120
Weight	600 g
Standards/Approvals	EN 60950, EN 61204-3, EN 61204-7, GL



787-602	787-612	787-622	787-632
4045454435134	4045454435202	4045454435349	4045454435370
100 ... 240 VAC	100 ... 240 VAC	100 ... 240 VAC	110 ... 230 VAC
90 ... 264 VAC; 130 ... 300 VDC	90 ... 264 VAC; 130 ... 300 VDC	90 ... 264 VAC; 130 ... 300 VDC	85 ... 264 VAC; 90 ... 350 VDC
24 VDC	24 VDC	24 VDC	24 VDC
21.6 ... 26.4 V	22 ... 28.8 V	22 ... 28.8 V	22 ... 28 V
1.3 A	2.5 A	5 A	10 A
-	yes	yes	yes
81% typ.	88% typ.	89% typ.	88% typ.
Green LED (DC OK)	Green LED (DC OK)	Green LED (DC OK)	Green LED (DC OK); red LED (overload)
-10°C ... +70°C	-10°C ... +70°C	-10°C ... +70°C	-10°C ... +70°C
40 x 95 x 90	51 x 133 x 120	67 x 133 x 120	115 x 87 x 140
300 g	690 g	890 g	1100 g
EN 60950, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL	EN 60950, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL	EN 60950, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL	EN 60950, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL



787-623	787-633	787-692	787-1675
4044918985734	4045454447458	4045454448097	4050821502616
100 ... 240 VAC	110 ... 240 VAC	100 ... 240 VAC	100 ... 240 VAC
90 ... 264 VAC; 130 ... 300 VDC	85 ... 264 VAC / 90 ... 350 VDC	90 ... 264 VAC; 130 ... 300 VDC	85V ... 264 VAC
48 VDC	48 VDC	30.5 VDC	24 VDC
42 ... 52.8 V	43.2 ... 53.8 V	28 ... 33 V	23.0 ... 28.5 VDC (mains operation) 18.5 ... 27.5 VDC (battery operation)
2 A	5 A	3 A	5 A
yes	yes	-	yes
90% typ.	89% typ.	89% typ.	89% typ.
Green LED (DC OK)	Green LED (DC OK) red LED (overload)	Green LED (DC OK) red LED (overload)	3 x 24 VDC signal output, 25 mA and 1 x 30 VDC isolated relay contact, 1 A
-10°C ... +70°C	-10°C ... +70°C	-10°C ... +70°C	-25°C ... +70°C
67 x 133 x 120	115 x 87 x 140	51 x 133 x 120	60 x 127 x 135.5
800 g	940 g	600 g	800 g
EN 60950, EN 61204-3, EN 61204-7, GL	EN 60950, EN 61204-3, EN 61204-7, GL	EN 60950, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL	EN 60950, UL 60950*, UL 508*, EN 61000-6-2, EN 61000-6-3

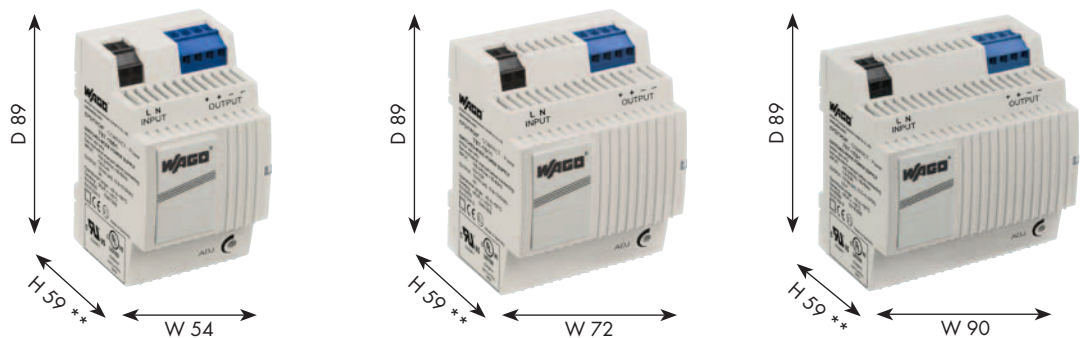
* pending

EPSITRON® COMPACT Power

Compact, High-Performance Power Supply in DIN-Rail Mount Enclosure

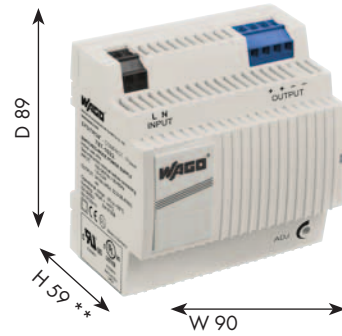
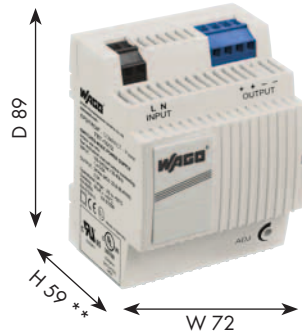
Installation depth is often restricted for both building and industrial applications. WAGO's COMPACT Power Supplies with 12 and 24 VDC output voltage meet these requirements with a height of just 55 mm from upper-edge of carrier rail.

In spite of the small dimensions, all of these devices have a wide voltage range and a constant current operation during overload or short circuit. With output power ranging from 30 to 100 W, they are truly high performance.



WAGO Item Number	787-1001	787-1011	787-1021
EAN number	4050821298236	4050821297604	4050821498018
Nominal input voltage	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
Nominal output voltage	12 VDC	12 VDC	12 VDC
Output voltage range	10.8 ... 18 VDC, adjustable	10.5 ... 15.5 VDC, adjustable	10.5 ... 15.5 VDC, adjustable
Output current	2 A at 12 VDC / 0.75 A at 18 VDC max. 1.4 A at 12 VDC in any mounting position	4 A at 12 VDC max. 2.4 A in any mounting position	6.5 A at 12 VDC max. 3.9 A in any mounting position
Default setting	12 VDC	12 VDC	12 VDC
Overload behavior	Constant current, 1.1 x I _o typ.	Constant current, 1.1 x I _o typ.	Constant current, 1.1 x I _o typ.
Operation status indicator	Green LED (V _o)	Green LED (V _o)	Green LED (V _o)
Efficiency	80% typ.	85% typ.	87% typ.
Ambient operating temperature	-25 °C ... +55 °C	-25 °C ... +55 °C	-25 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C	-25 °C ... +85 °C	-25 °C ... +85 °C
Derating	-3% / K (>45 °C)	-3% / K (>45 °C)	-3% / K (>45 °C)
Parallel-/Series-connections possible	yes	yes	yes
Type of mounting	DIN-rail mount (EN 60715)	DIN-rail mount (EN 60715)	DIN-rail mount (EN 60715)
Dimensions (mm) W x H x D Height from upper-edge of DIN 35 rail	54 x 59 x 89 Height: 55 mm, from upper-edge of DIN 35 rail	72 x 59 x 89 Height: 55 mm, from upper-edge of DIN 35 rail	90 x 89 x 59 Height: 55 mm, from upper-edge of DIN 35 rail
Weight	approx. 170 g	approx. 240 g	300 g
Standards/Approvals	EN 60950 (SELV), EN 61204-3, UL 60950, UL 508, GL	EN 60950 (SELV), EN 61204-3, UL 60950*, UL 508*, GL	EN 60950 (SELV), EN 61204-3, GL, UL 60950*, UL 508*

* pending ** H = 55 mm, from upper-edge of DIN 35 rail

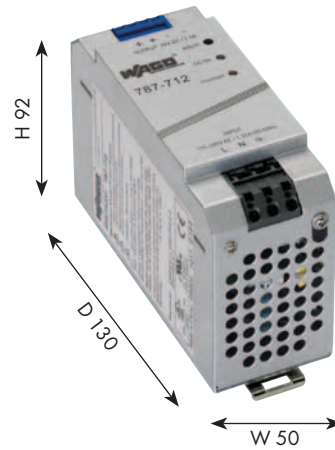


787-1002	787-1012	787-1022
4050821298229	4050821297598	4050821297581
100 ... 240 VAC	100 ... 240 VAC	100 ... 240 VAC
85 ... 264 VAC; 120 ... 373 VDC	85 ... 264 VAC; 120 ... 373 VDC	85 ... 264 VAC; 120 ... 373 VDC
24 VDC	24 VDC	24 VDC
22.8 ... 26.4 VDC, adjustable	22.8 ... 26.4 VDC, adjustable	22.8 ... 26.4 VDC, adjustable
1.3 A at 24 VDC max. 0.9 A in any mounting position	2.5 A at 24 VDC max. 1.6 A in any mounting position	4 A at 24 VDC max. 2.4 A in any mounting position
24 VDC	24 VDC	24 VDC
Constant current, 1.1 x I _o typ.	Constant current, 1.1 x I _o typ.	Constant current, 1.1 x I _o typ.
Green LED (V _o)	Green LED (V _o)	Green LED (V _o)
82% typ.	88% typ.	88% typ.
-25 °C ... +55 °C	-25 °C ... +55 °C	-25 °C ... +55 °C
-25 °C ... +85 °C	-25 °C ... +85 °C	-25 °C ... +85 °C
-3 % / K (>45 °C)	-3 % / K (>45 °C)	-3 % / K (>45 °C)
yes	yes	yes
DIN-rail mount (EN 60715)	DIN-rail mount (EN 60715)	DIN-rail mount (EN 60715)
54 x 59 x 89 Height: 55 mm, from upper-edge of DIN 35 rail	72 x 59 x 89 Height: 55 mm, from upper-edge of DIN 35 rail	90 x 59 x 89 Height: 55 mm, from upper-edge of DIN 35 rail
approx. 170 g	approx. 240 g	approx. 300 g
EN 60950 (SELV), EN 61204-3, UL 60950, UL 508, GL	EN 60950 (SELV), EN 61204-3, UL 60950, UL 508, GL	EN 60950 (SELV), EN 61204-3, UL 60950*, UL 508*, GL

EPSITRON® ECO Power

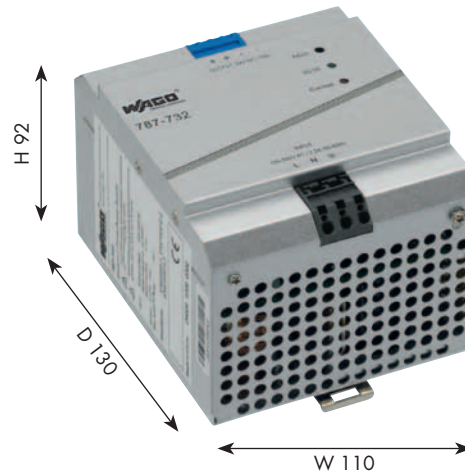
Economical Power Supply for Standard Applications

In many applications, only 24V is required, without additional functions. This is where ECO Power Supplies present an economical alternative: in solid metal enclosures and with proven, maintenance-free CAGE CLAMP® connection technology.



WAGO Item Number	787-712
EAN number	4045454908195
Nominal input voltage	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
Nominal output voltage	24 VDC
Output voltage range	22 ... 28 VDC
Output current	2.5 A
Parallel connection, stabilized current characteristic	yes
Efficiency	82% typ.
LED indication	Green LED (DC OK) red LED (overload)
Ambient operating temperature	-10°C ... +70°C
Dimensions (mm) W x H x D Height from upper-edge of DIN 35 rail	50 x 92 x 130
Weight	470 g
Standards/Approvals	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Div.2)*, ATEX (Zone 2)*

* pending



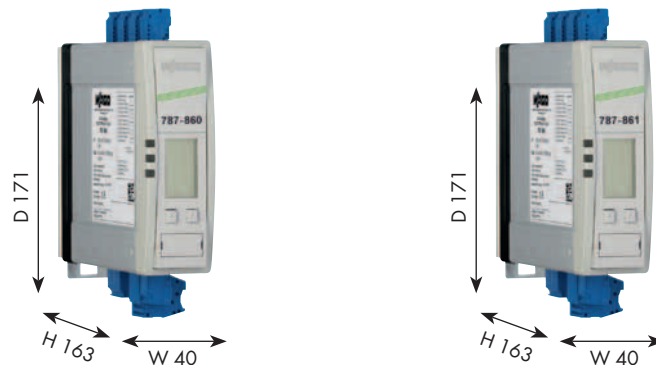
787-722	787-732
4045454908188	4045454908140
110 ... 240 VAC	110 ... 240 VAC
85 ... 264 VAC; 130 ... 373 VDC	85 ... 264 VAC; 130 ... 373 VDC
24 VDC	24 VDC
22 ... 28 VDC	22 ... 28 VDC
5 A	10 A
yes	yes
82% typ.	82% typ.
Green LED (DC OK) red LED (overload)	Green LED (DC OK) red LED (overload)
-10°C ... +60°C	-10°C ... +70°C
75 x 92 x 130	110 x 92 x 130
740 g	1030 g
EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Div.2)*, ATEX (Zone 2)*	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 60950, UL 508, ANSI/ISA 12.12.01 (Class I Div.2)*, ATEX (Zone 2)*

EPSITRON® – Electronic Circuit Breakers

Convenient, Configurable Protection for 24 VDC

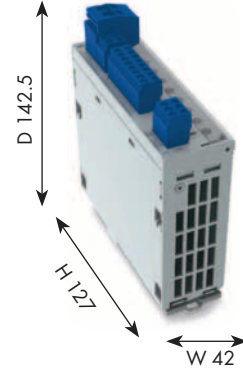
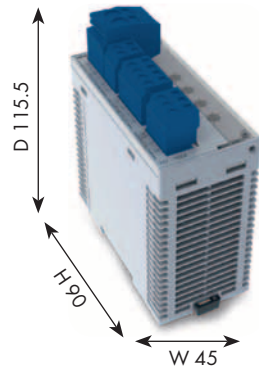
Whenever a secondary-sided protection with classic wire circuit breakers or melting fuses would be ineffective due to high loop impedance, use of electronic circuit breakers is indispensable. Electronic circuit breakers enable comfortable setting of the nominal current in the current paths, in particular for wiring with long cable lengths and small cross sections. Even high-capacity loads can be

switched problem-free due to the switch-on capacity of > 20 mF or > 50 mF; the switch-on delay in the individual cables minimizes the starting current height. Selective protection, up to 100%, is possible using the optional integrated current limiting.



WAGO Item Number	787-860	787-862
EAN number	4045454909888	4045454909864
Description	Electronic circuit breaker	Electronic circuit breaker
Nominal input voltage	24 VDC	24 VDC
Nominal output voltage	4 x 24 VDC	4 x 24 VDC
Nominal current	4 x 1 ... 6 ADC (adjustable for each channel in 1A steps)	4 x 1 ... 10 ADC (adjustable for each channel in 1A steps)
Voltage drop	120 mV at 6 A	240 mV at 10 A
Trip time	100 s (100 ms ... 600 s; adjustable)	100 s (100 ms ... 600 s; adjustable)
Switch-on capacity	max. 20,000 µF	max. 20,000 µF
Switch-on behavior	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
Remote control input	Reactivation of all tripped channels via pulse	Reactivation of all tripped channels via pulse
Short-circuit current limitation	-/-	-/-
Ambient operating temperature	-10°C ... +60°C	-10°C ... +60°C
Storage temperature	-25°C ... +85°C	-25°C ... +85°C
Dimensions (mm) W x H x D**	40 x 163 x 171	40 x 163 x 171
Weight	800 g	800 g
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3

* pending ** H from upper-edge of DIN 35 rail; T=127 mm, without pluggable female connectors



787-861	787-1664	787-1668
4045454909871	4050821502609	4050821502593
Electronic circuit breaker with current limitation	Electronic circuit breaker	Electronic circuit breaker
24 VDC	24 VDC	24 VDC
4 x 24 VDC	4 x 24 VDC	8 x 24 VDC
4 x 1 ... 8 ADC (adjustable for each channel in 1A steps)	max. 4 x 10 ADC (2, 3, 4, 6, 8, 10 A adjustable for each channel via selector switch)	max. 8 x 10 ADC (2, 3, 4, 6, 8, 10 A adjustable for each channel via selector switch)
240 mV at 8 A	200 mV at 10 A	200 mV at 10 A
100 ms (100 ms ... 1.5 s; adjustable, depending on nominal current)	Load-dependent (20 ms ... 100 s)	Load-dependent (20 ms ... 100 s)
max. 20,000 µF	> 50000 µF per channel	> 50000 µF per channel
Time-delayed channel switching (250 ms each)	Time-delayed channel switching (50 ... 100 ms each)	Time-delayed channel switching (50 ... 100 ms each)
LED, LC display, 4 x signal output 24 VDC, 25 mA	4 x LED (green/red), 1 x isolated relay contact 30 VDC, 1 A	8 x LED (green/red), 1 x 30 VDC isolated relay contact, 1 A
	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms. Switching on/off any number of channels via pulse sequence.	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms. Switching on/off any number of channels via pulse sequence.
1.5 x nominal current typ.	-/-	-/-
-10°C ... +60°C	-25°C ... +70°C	-25°C ... +70°C
-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
40 x 163 x 171	45 x 90 x 115.5	42 x 127 x 142.5
800 g	170 g	440 g
EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3	UL 60950*, UL 508*, UL 2367*, GL*, EN 60950, EN 61000-6-2, EN 61000-6-3	UL 60950*, UL 508*, UL 2367*, GL*, EN 60950, EN 61000-6-2, EN 61000-6-3

EPSITRON® – Uninterruptible Power Supply (UPS)

Reliable and Safe Compensation – Even for Longer Power Failures

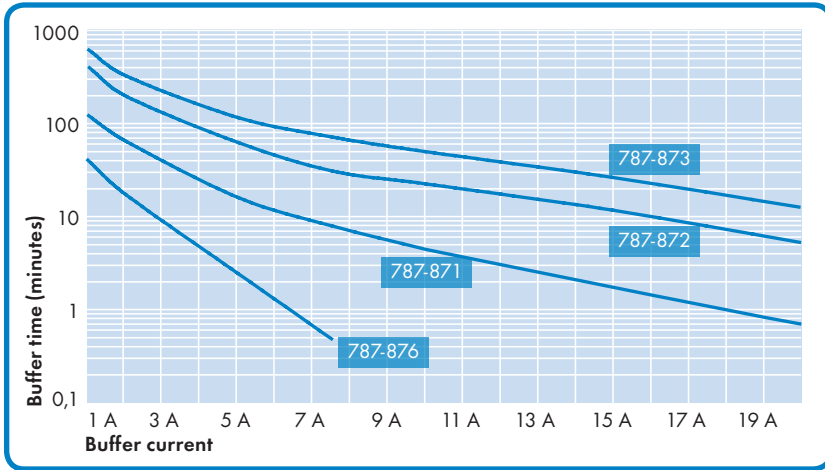
Unplanned power failures most often lead to unexpected machine and system outages, which can then only be started up again with a great deal of effort. This causes a loss of productivity, but also damage due to loss of data, such as measured values or settings. In this case, a UPS offers protection and cost savings simultaneously. A UPS charger and controller monitors the power supply at the input and provides power from the connected battery module to consumers when the input voltage drops below a critical value.

Depending on the battery module selected, the buffer current or the buffer time can be increased from minutes to hours. The integrated monitoring of the battery module naturally ensures optimal, temperature-controlled storage, and also returns feedback about the battery operating and charge states, which can be evaluated via serial interfaces and signal contacts.

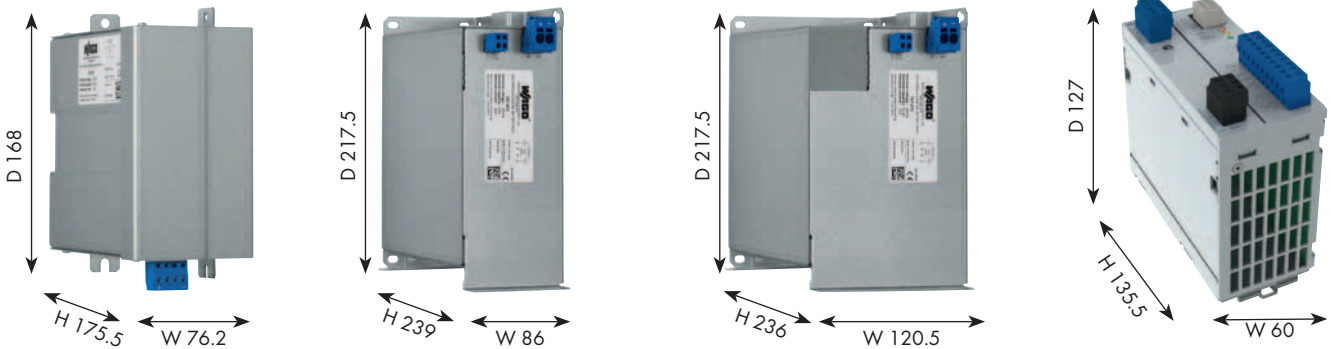


WAGO Item number	787-870	787-875	787-876
EAN number	4045454909857	4045454993917	4050821298243
Description	UPS charger and controller	UPS charger and controller	Lead-acid AGM battery module
Nominal input voltage	24 VDC	24 VDC	24 VDC
Input current Ii	0.1 A (no-load running); 0.8 A (charging); 10.8 A (max.)	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	Vi - 1 VDC (below switch-on threshold); Battery voltage - 1 VDC (buffer mode)	Vi - 1 VDC (below switch-on threshold); Battery voltage - 1 VDC (buffer mode)	24 VDC
Output current Io	10 A	20 A	max. 7.5 A
Buffer time	10 s ... 600 s or constant (adjustable)	10 s ... 600 s or constant (adjustable)	Capacity: 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 x signal output 24 VDC, 25 mA and 1 x isolated relay contact	LCD, 3 x signal output 24 VDC, 25 mA and 1 x isolated relay contact	NTC K164 temperature sensor (4.7 kOhm)
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
Storage temperature	-25°C ... +85°C	-25°C ... +85°C	-20°C ... +40°C
Dimensions (mm) W x H x D *	40 x 163 x 163	57 x 163 x 171	55 x 126 x 153 incl. female connector
Weight	0.8 kg	1.2 kg	approx. 1.8 kg
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3	Battery is tested to VdS

* pending ** H from upper-edge of DIN 35 rail; T=127 mm, without pluggable female connectors (787-870 and 787-875 only)



Buffer Time vs. Load Current

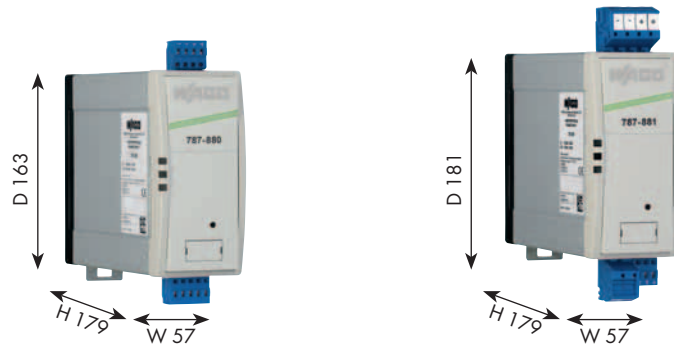


787-871	787-872	787-873	787-1675
4045454916626	4045454909840	4045454993900	4050821502616
Lead-acid AGM battery module	Lead-acid AGM battery module	Lead-acid AGM battery module	Primary Switch Mode Power Supply with Integrated UPS Charger and Controller
24 VDC	24 VDC	24 VDC	100 ... 240 VAC
max. 0.8 A	max. 1.8 A	max. 3 A	1.1 A at 230 VAC and 5 ADC
24 VDC	24 VDC	24 VDC	23.0 ... 28.5 VDC (mains operation) 18.5 ... 27.5 VDC (battery operation)
20 A	max. 21 A	max. 21 A	5 A
Capacity: 3.2 Ah	Capacity: 7 Ah	Capacity: 12 Ah	0.5 ... 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)	NTC K164 temperature sensor (4.7 kOhm)	NTC K164 temperature sensor (4.7 kOhm)	3 x 24 VDC signal output, 25 mA and 1 x 30 VDC isolated relay contact, 1 A
			Switches buffer mode off
-10°C ... +40°C	-10°C ... +40°C	-10°C ... +40°C	-25°C ... +70°C
-20°C ... +40°C	-20°C ... +40°C	-20°C ... +40°C	-40°C ... +85°C
76.2 x 175.5 x 168 incl. female connector	86 x 239 x 217.5 incl. female connector	120.5 x 239 x 217.5 incl. female connector	60 x 127 x 118 (without female connector)
4.2 kg	6.5 kg	10.6 kg	800 g
Battery is tested to VdS	Battery is tested to VdS	Battery is tested to VdS	EN 60950, UL 60950*, UL 508*, EN 61000-6-2, EN 61000-6-3

EPSITRON® – Capacitive Buffer Modules

Short-Term Power Reserves for Mains Failures and Load Changes

Even short-term current interruptions that last more than 20 ms can present a risk for the smooth operation of sensitive controls in machines and systems. A capacitive buffer module offers a remedy, providing a maintenance-free energy reserve for a few seconds from super or gold caps.



WAGO 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	typ. 5 minutes	typ. 5 minutes
Switch-on threshold (adjustable)	20 ... 24 VDC	20 ... 24 VDC
Output voltage range	$V_i - 1$ VDC (below switch-on threshold); 20.4 ... 24 VDC (buffer mode)	$V_i - 1$ VDC (below switch-on threshold); 20.4 ... 24 VDC (buffer mode)
Output current I_o	10 A	20 A
Buffer time	0.06 s ... 7.2 s (according to load current and switch-on threshold)	0.17 s ... 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
Storage temperature	-10 °C ... +60 °C	-10 °C ... +60 °C
Dimensions (mm) W x H x D**	57 x 179 x 163	57 x 179 x 181
Weight	1.0 kg	1.0 kg
Standards/Specifications	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 508	EN 60950, EN 61000-6-2, EN 61000-6-3, UL 508

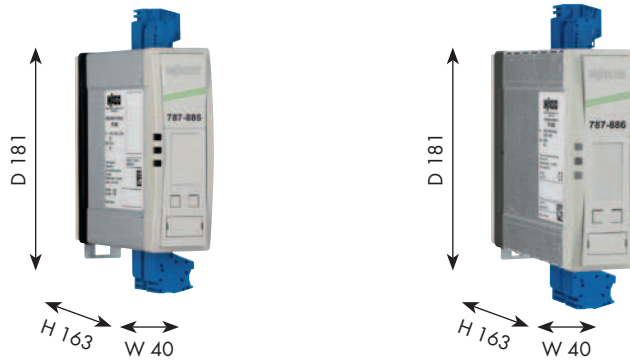
** H from upper-edge of DIN 35 rail;

D=127 mm, without pluggable female connectors

EPSITRON®-Redundancy Modules

Reliably Increasing Power Supply Availability

In many applications, a reliable power supply is very important, e.g., avoiding production failures or guaranteeing safety. In order to prevent a possible failure of a power source, the power supply is doubly, or redundantly, implemented. A redundancy module ensures a backlash-free interconnection of two network devices by decoupling the current paths via two high-performance diodes.



WAGO Item Number	787-885	787-886
EAN number	4045454909802	4050821262725
Description	Redundancy module	Redundancy module
Nominal input voltage V_i	2 x 24 VDC	2 x 48 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
Nominal output voltage $V_o \text{ nom}$	24 VDC	48 VDC
Output current I_o	20 A, max. 40 A	20 A, max. 40 A
Efficiency	97% typ.	96% typ.
Power loss PV	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)
LED indication	LED; isolated relay contact	LED; isolated relay contact
Ambient operating temperature	-10°C ... +60°C	-10°C ... +60°C
Storage temperature	-25°C ... +85°C	-25°C ... +85°C
Dimensions (mm) W x H x D**	40 x 163 x 181	40 x 163 x 181
Weight	0.8 kg	0.8 kg
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3	EN 60950, UL 60950, UL 508, EN 61000-6-2, EN 61000-6-3

Relays and Optocouplers

Switching Is What Counts

WAGO Relay Modules

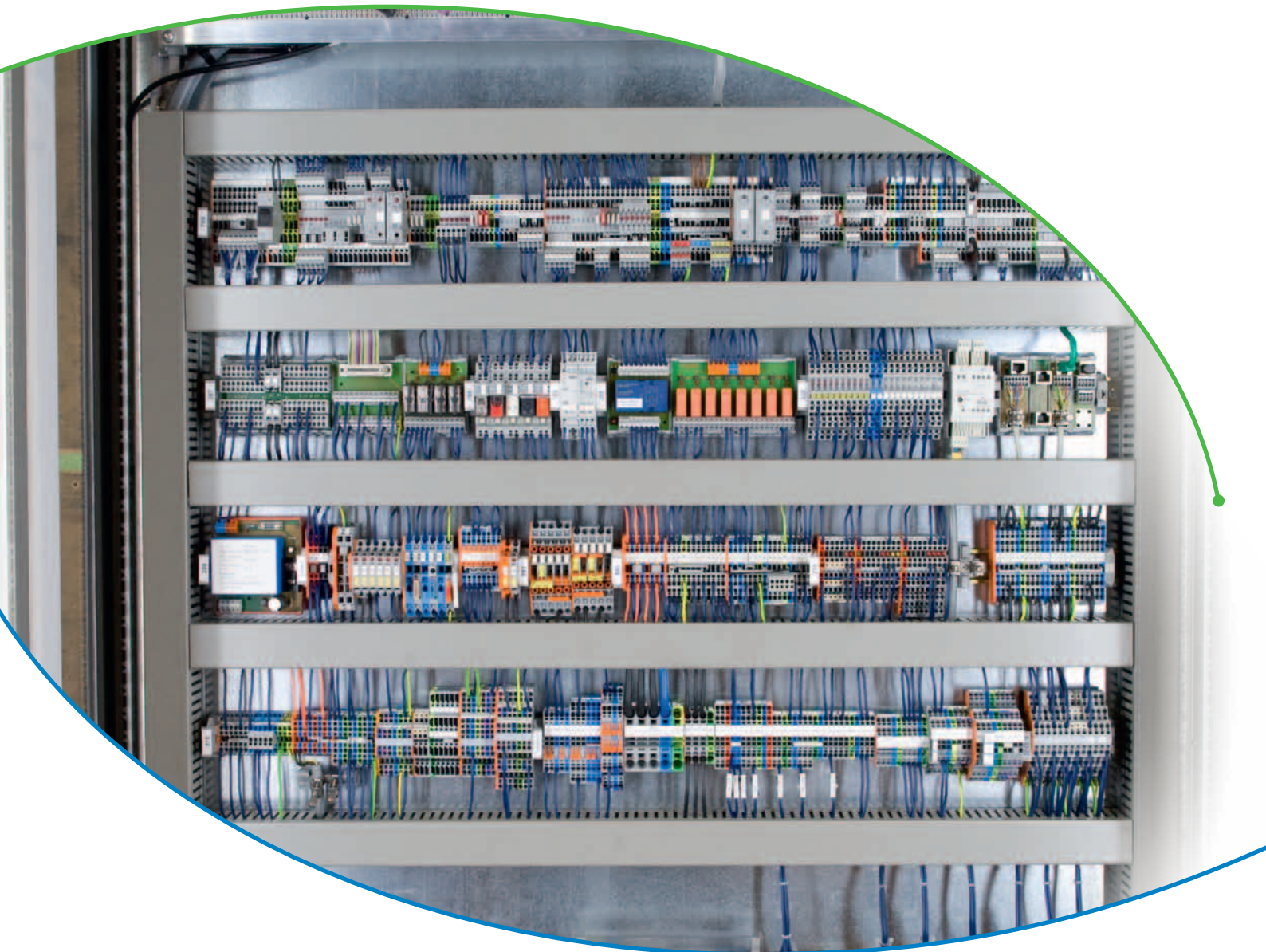
In modern automation systems, electromechanical relays safely connect process peripherals with electronic control, alarm and monitoring systems. Depending on the application and its requirements, there is a choice of relay modules with different rated voltages, contacts, contact materials, housings and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

In addition to standard switching relays, bistable relays, timing relays, latching relays and safety relays with force-guided contacts are also available.

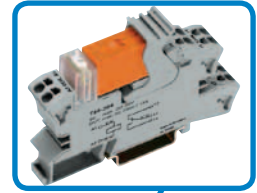
WAGO Optocouplers

Optocouplers are used as connecting elements between process peripherals and electronic control, alarm and monitoring systems.

WAGO offers a complete optocoupler portfolio for all interfaces between control and load circuits. Optocouplers are available with different rated voltages, switching capacities and housing options to suit any application.



788 Series
Sockets with Miniature Switching
Relay or Solid-State Relays



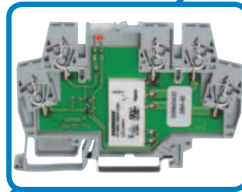
858 Series
Socket with Miniature Switching Relay



789 Series
Relay Modules in DIN-
Rail Mounted Enclosure



859 Series
Rail-Mounted Terminal Blocks
with Miniature Switching Relay or
Optocoupler


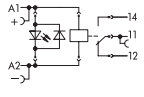

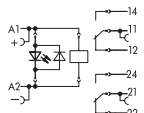

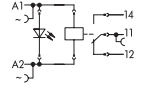

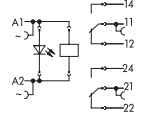

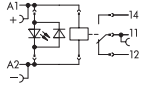

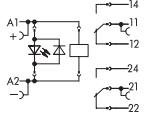

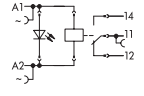

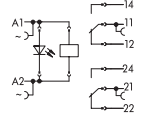


857 Series
Sockets with Miniature Switching
Relay or Solid-State Relays






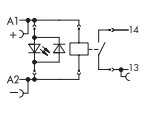
Sockets with Miniature Switching Relay

788 Series


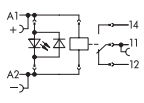
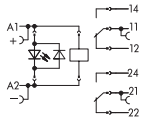

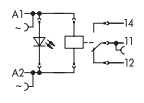
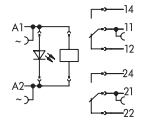
Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 change-over contact and status indication (15 mm high)			788-304	4050821288305	24 VDC	250 VAC	16 A
Relay with 2 change-over contacts and status indication (15 mm high)			788-312	4050821288312	24 VDC	250 VAC	2 x 8 A
Relay with 1 change-over contact and status indication (15 mm high)			788-508	4050821288343	230 VAC	250 VAC	16 A
Relay with 2 change-over contacts and status indication (15 mm high)			788-516	4050821288350	230 VAC	250 VAC	2 x 8 A
Relay with 1 change-over contact and status indication (25 mm high)			788-324	4045454352066	24 VDC	250 VAC	16 A
Relay with 2 change-over contacts and status indication (25 mm high)			788-334	4050821288329	24 VDC	250 VAC	2 x 8 A
Relay with 1 change-over contact and status indication (25 mm high)			788-528	4045454484767	230 VAC	250 VAC	16 A
Relay with 2 change-over contacts and status indication (25 mm high)			788-538	4045454484774	230 VAC	250 VAC	2 x 8 A

Sockets with Miniature Switching Relay for Lamp Loads

788 Series


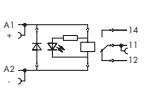
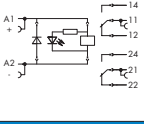

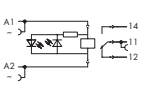
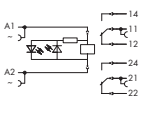
Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay for lamp loads, with 1 changeover contact and status indication (15 mm high)			788-354	4050821288336	24 VDC	250 VAC	16 A
Relay for lamp loads, with 1 make contact and status indication (25 mm high)			788-355	4045454352103	24 VDC	250 VAC	16 A

Sockets with Miniature Switching Relay with Gold Contacts, 788 Series


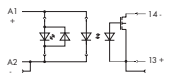

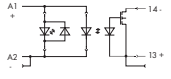

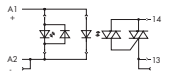

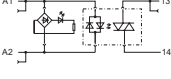
Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 change-over contact , with gold contacts and status indication (15 mm high)			788-404	4045454352158	24 VDC	36 VDC*	50 mA*
Relay with 2 change-over contacts , with gold contacts and status indication (15 mm high)			788-412	4045454352165	24 VDC	36 VDC*	2 x 50 mA*
Relay with 1 change-over contact , with gold contacts and status indication (15 mm high)			788-608	4045454484798	230 VAC	36 VDC*	50 mA*
Relay with 2 change-over contacts , with gold contacts and status indication (15 mm high)			788-616	4045454484804	230 VAC	36 VDC*	2 x 50 mA*

* In order to prevent the gold layer from being damaged, these values shall not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the housing may cause sparkovers between the coil and the contact.



Sockets with Miniature Switching Relay for Manual Operation 788 Series

Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 change-over contact , manual operation and status indication (25 mm high)			788-341	4050821226758	24 VDC	250 VAC	16 A
Relay with 2 change-over contacts , manual operation and status indication (25 mm high)			788-346	4050821226864	24 VDC	250 VAC	2 x 8 A
Relay with 1 change-over contact , manual operation and status indication (25 mm high)			788-544	4050821226871	230 VAC	250 VAC	16 A
Relay with 2 change-over contacts , manual operation and status indication (25 mm high)			788-549	4050821226802	230 VAC	250 VAC	2 x 8 A


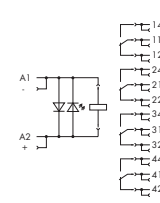
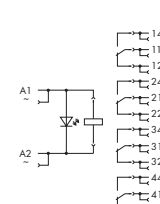
Sockets with Solid State Relay Series 788

Description			WAGO Item No.	EAN No.	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	0 ... 24 VDC	3.5 A
Relay socket with solid state relay for DC loads			788-701	4045454743871	24 VDC	0 ... 24 VDC	5 A
Relay socket with solid state relay for AC loads			788-720	4045454743888	24 VDC	AC 24 V ... 240 V	1 A
Relay socket with solid state relay for AC loads Zero voltage switch			788-721	4045454945961	24V AC/DC	AC 12 V ... 275 V	2 A


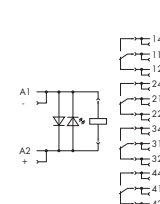
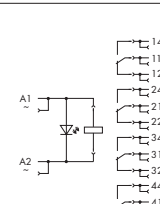
Jumpers for 788 Series

Description		WAGO Item No.	EAN No.	Max. Continuous Current
Push-in type jumper bars, 2-way, for power distribution between relays		788-113	4044918508605	17 A
Push-in type jumper bars, 2-way, for connecting contact sets within a module		859-402	4044918506434	17 A

Relay Sockets with Industrial Relay 858 Series

Description		WAGO Item No.	EAN No.	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	5 A
	Relay with 4 changeover contacts , manual operation and status indication		858-508	4045454902933	230 VAC	250 VAC	5 A

Relay Sockets with Industrial Relay and Gold Contacts 858 Series

Description		WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current	
	Relay with 4 changeover contacts , with gold contacts, manual operation, and status indication		858-314	4045454902926	24 VDC	60 VDC *	50 mA *
	Relay with 4 changeover contacts , with gold contacts, manual operation, and status indication		858-518	4045454902940	230 VAC	60 VDC *	50 mA *

* In order to prevent the gold layer from being damaged, these values shall not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the housing may cause sparkovers between the coil and the contact.

Jumper for 858 Series


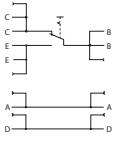

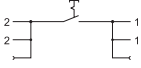

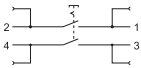

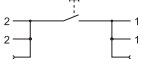

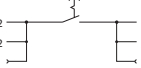
Description	WAGO Item No.	EAN No.	Max. Continuous Current
 <p>Push-in type jumper bars, 2-way, for power distribution between relays</p>	858-402	4045454868109	12 A

Relay Modules in DIN-Rail Mounted Enclosure

789 Series

Description		WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current	
Relay with 1 change-over contact			789-304	4045454313005	24 VDC	250 VAC	12 A
Relay with 2 change-over contacts			789-312	4045454313043	24 VDC	250 VAC	8 A
Relay with 1 change-over contact			789-508	4017332819398	230 VAC	250 VAC	12 A
Relay with 2 change-over contacts			789-516	4045454388218	230 VAC	250 VAC	8 A
Relay with 4 make contacts			789-352	4017332860390	24 VDC	250 VAC	4 A
Relay with 1 change-over contact, manual override			789-1341	4050821386728	24 VDC	250 VAC	12 A
Relay with 2 change-over contacts, manual override			789-1346	4050821386773	24 VDC	250 VAC	8 A
Relay with 1 change-over contact, manual override			789-1544	4050821386780	230 VAC	250 VAC	12 A
Relay with 2 change-over 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

Switching Modules, 789 Series

Description			WAGO Item No.	EAN No.	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, pushbutton switch , 1-pole			789-804	4050821274834	250 VAC	16 A

Jumper for 789 Series

Description		WAGO Item No.	EAN No.	Max. Continuous Current
Push-in type jumper bars , 12-way, for power distribution between relays		789-112	4017332807432	16 A

Rail-Mounted Terminal Blocks with Miniature Switching Relay or Optocoupler, 859 Series


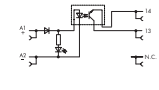
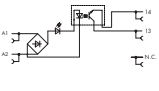

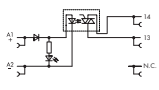
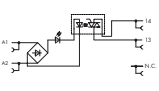

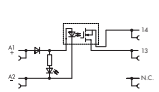
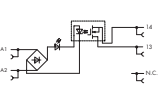
Description			WAGO Item No.	EAN No.	Input Nominal Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 changeover contact			859-304	4045454889210	24 VDC	250 VAC	5 A
Relay with 1 changeover contact			859-358	4045454304959	230 V AC/DC	250 VAC	5 A
Relay with 1 changeover contact, with gold contacts			859-314	4045454293741	24 VDC	36 VDC *	50 mA*
Relay with 1 changeover contact, with gold contacts			859-359	4045454503789	230 VAC	36 VDC *	50 mA*
Relay with 1 changeover contact, with specified turn-on and turn-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

Socket with Miniature Switching Relay 857 Series

Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 changeover contact			857-304	4045454911409	24 VDC	250 VAC	6 A
			857-358	4045454471576	230 V AC/DC	250 VAC	6 A
Relay with 1 changeover contact, with gold contacts			857-314	4045454673543	24 VDC	36 VDC*	50 mA*
			857-368	4045454673482	230 V AC/DC	36 VDC*	50 mA*

* In order to prevent the gold layer from being damaged, these values shall not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the housing may cause sparkovers between the coil and the contact.

Relay Socket with Solid State Relay 857 Series

Description			WAGO Item No.	EAN No.	Nominal Input Voltage V_N	Output voltage range	Max. Continuous Current
Relay socket with 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 solid state relay for DC loads			857-714	4045454835545	24 VDC	AC 24 V ... 240 V	1 A
			857-718	4045454835521	230 V AC/DC	AC 24 V ... 240 V	1 A
Relay socket with 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			WAGO Item No.	EAN No.	Nominal Voltage	Current Carrying Capacity per Channel	Max. Total Current
8-channel adapter with 14-pin ribbon cable connector, high-side switching input; use on the solenoid side			857-981	4045454995171	24 VDC	1 A	3 A
8-channel adapter with 14-pin ribbon cable connector, high-side switching output; use on the contact side			857-982	4045454995188	24 VDC	1 A	3 A
WAGO ribbon cable 14-pin with open end, 2 m long			0706-0100/ 1303-0200	4050821452423			

Find the right jumpers and marking on page 10 in the JUMPFLEX® chapter. Additional cable types and lengths available upon request.

Setting Our Sights on Variety

Safe and maintenance-free connections

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

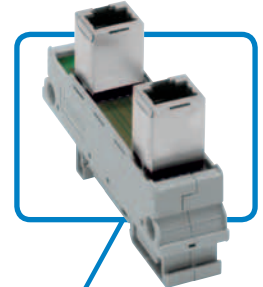
Here, the control signals from pre-assembled, plug-in connections are applied to terminal block connections. Using these interface modules, the following benefits are provided for system wiring:

- 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.

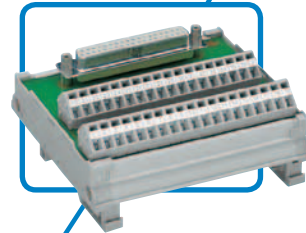
The interface modules can be delivered standard, in universal mounting carrier for DIN 35 rail, for the following connectors:



Interface Modules with RJ45 Connector
for PC, network-, and telephone services applications




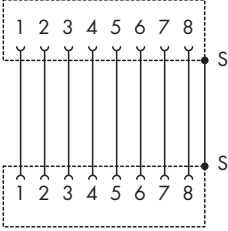

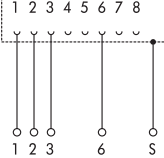

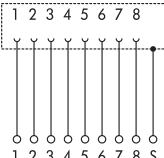

Interface Modules with Sub-D Male or Female Connectors
with 9, 15, 25, 37, or 50 connectors



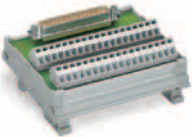
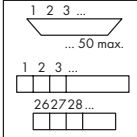

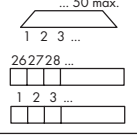
Interface Modules with Ribbon Cable Connector
available with 10-, 14-, 16-, 20-, 26-, 34-, 40-, 50-
and 64-pin male connectors



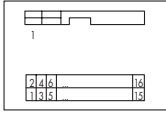
Interface Modules with RJ45 Connector

Description	WAGO Item No.	EAN No.
<p>RJ45 Interface module, mounting carrier for DIN 35 rail</p> 	 <p>289-172</p>	<p>4045454317478</p>
<p>RJ45 Interface module, with clamping unit for WAGO shield clamping saddle, mounting carrier for DIN 35 rail</p> 	 <p>289-174</p>	<p>4045454317492</p>
<p>RJ45 Interface module, with clamping unit for WAGO shield clamping saddle, mounting carrier for DIN 35 rail</p> 	 <p>289-175</p>	<p>4045454317522</p>
<p>WAGO shield clamping saddle (11 mm width, cable diameter up to 8 mm)</p> 	<p>790-108</p>	<p>4017332356954</p>

Interface Modules with Sub-D Connectors

Description			WAGO Item No.	EAN No.	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 35 rail			289-545	4045454413804	9	125 V AC/ DC	2 A
			289-546	4045454413583	15		
			289-547	4045454362171	25		
			289-548	4045454366971	37		
			289-549	4045454322779	50		
Interface module with D-subminiature female connector , for mating connectors with solder connection, vertical insertion, mounting carrier for DIN 35 rail			289-555	4045454371180	9	125 V AC/ DC	2 A
			289-556	4045454417857	15		
			289-557	4045454432683	25		
			289-558	4045454501303	37		
			289-559	4045454409746	50		

Interface Modules with Ribbon Cable Connector According to DIN 41 651

Description			WAGO Item No.	EAN No.	Pole No.	Operating Voltage	Nominal Current
Interface module for ribbon cable connector according to DIN 41 651, mounting carrier for DIN 35 rail			289-611	4045454471200	10	125 V AC/DC	1 A
			289-612	4045454353575	14		
			289-613	4045454405465	16		
Interface module for ribbon cable connector according to DIN 41 651, mounting carrier for DIN 35 rail			289-614	4045454011543	20	125 V AC/DC	1 A
			289-615	4045454353582	26		
			289-616	4045454353599	34		
			289-617	4045454353612	40		
			289-618	4045454353629	50		
289-619	4045454329877	64					

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