

Data sheet | Item number: 789-536

Relay module; Nominal input voltage: 24 VAC; 2 break and 2 make contacts;  
Limiting continuous current: 4 A; for lamp loads; Red status indicator; Module  
width: 18 mm; 2,50 mm<sup>2</sup>; gray

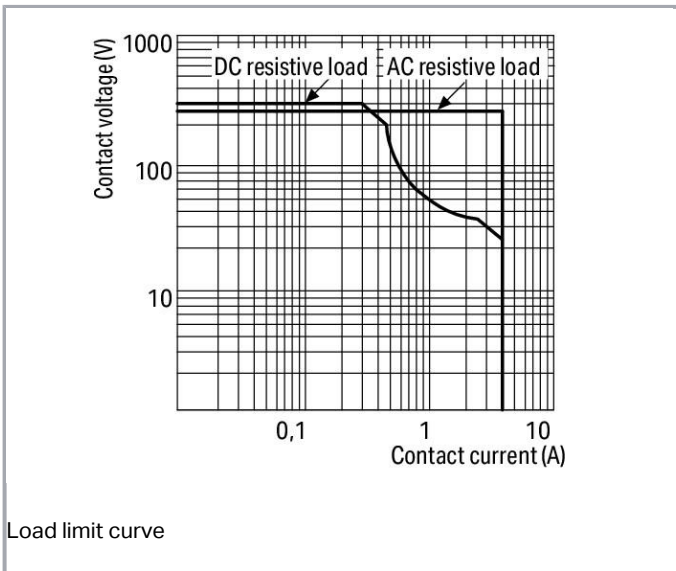
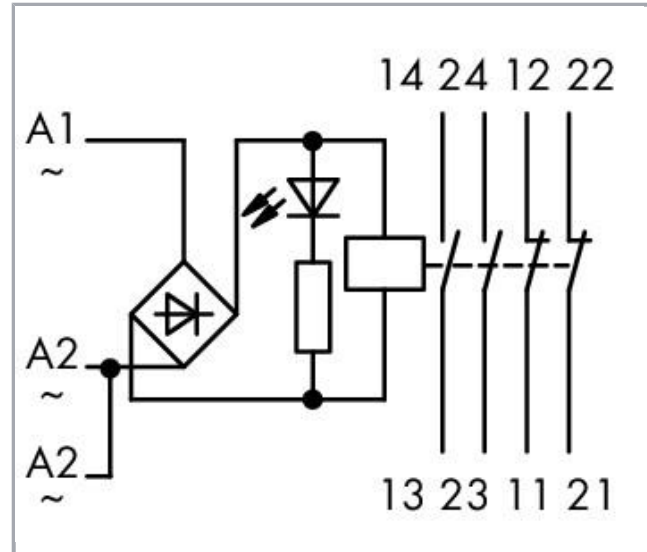


[www.wago.com/789-536](http://www.wago.com/789-536)



BOMcheck.net

Color: ■



Subject to changes. Please also observe the further product documentation!

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## Item description

### Short description:

WAGO's 789 Series Switching Relays serve a wide variety of applications, from basic lighting control – homes, hotels and commercial structures – to comprehensive industrial control cabinets. Just 17.5 mm (0.689 inch) wide, the compact DIN-rail-mount enclosure is ideal for distribution boards and meter cabinets.

### Note:

To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Data

### Technical Data

#### Control circuit

Nominal input voltage $U_N$	AC/DC 24 V
Input voltage range	-15 ... +10 %
Nominal input current at $U_N$	12 mA

#### Load circuit:

Number of break contacts/switch off contacts	2
Number of make contacts/switch on contacts	2
Contact material (relay)	AgNi + Au
Limiting continuous current	4 A
Max. switching voltage	AC 250 V
Max. switching power (resistive)	AC 1000 VA; DC (see load limit curve)
Recommended minimum load	0,1 V / 0,1 mA
Pull-in time (typ.)	20 ms
Drop-out time (typ.)	20 ms
Bounce time (typ.)	1 ms
Mechanical life	10 x 10 <sup>6</sup> switching operations

#### Signaling

Status indication	Red LED
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#### Safety and protection:

Rated voltage	230 V
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Subject to changes. Please also observe the further product documentation!



Rated impulse voltage	2.5 kV
Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	1,5 kVrms
Dielectric strength open contact (AC, 1 min)	0,75 kVrms
Dielectric strength, load/load circuit (AC, 1 min)	1 kVrms
Protection class	IP20

### Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

### Geometrical Data

Width	17,5 mm / 0.689 inch
Height from upper-edge of DIN-35 rail	55 mm / 2.165 inch
Depth	90 mm / 3.543 inch

### Mechanical data

Type of mounting	DIN-35 rail
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### Material Data

Color	gray
Fire load	1.033 MJ
Weight	50.7 g

### Environmental Requirements

Surrounding air (operating) temperature at U <sub>N</sub>	-25 ... 40 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Processing temperature	-25 ... +50 °C

### Standards and specifications

Standards/specifications	EN 60664-1; EN 61810-1
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Subject to changes. Please also observe the further product documentation!

## Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4017332814850
Customs Tariff No.	85364900990

## Counterpart

## Compatible products

### tools



**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)

### Jumper

**Item no.: 789-112**

Push-in type jumper bar; 12-way; Nominal current 16 A; unplated; silver-colored

[www.wago.com/789-112](http://www.wago.com/789-112)

### ferrule

**Item no.: 216-241**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

[www.wago.com/216-241](http://www.wago.com/216-241)



**Item no.: 216-242**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

[www.wago.com/216-242](http://www.wago.com/216-242)



**Item no.: 216-243**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

[www.wago.com/216-243](http://www.wago.com/216-243)

**Item no.: 216-244**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

[www.wago.com/216-244](http://www.wago.com/216-244)

### Marking accessories



**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)



**Item no.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white /000-002

[www.wago.com/2009-145](http://www.wago.com/2009-145)

Subject to changes. Please also observe the further product documentation!

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	<b>Item no.: 2009-145/000-005</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	<a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a>
	<b>Item no.: 2009-145/000-006</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	<a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a>
	<b>Item no.: 2009-145/000-007</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a>
	<b>Item no.: 2009-145/000-012</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	<a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a>
	<b>Item no.: 2009-145/000-023</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	<a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a>
	<b>Item no.: 2009-145/000-024</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	<a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a>
	<b>Item no.: 210-110</b> Fiber-tip pen	<a href="http://www.wago.com/210-110">www.wago.com/210-110</a>
	<b>Item no.: 248-450</b> Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-450">www.wago.com/248-450</a>
	<b>Item no.: 248-451</b> Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-451">www.wago.com/248-451</a>
	<b>Item no.: 248-452</b> Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-452">www.wago.com/248-452</a>
	<b>Item no.: 248-453</b> Mini-WSB marking card; as card; MARKED; U1, ... U10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-453">www.wago.com/248-453</a>
	<b>Item no.: 248-454</b> Mini-WSB marking card; as card; MARKED; U11 - U20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-454">www.wago.com/248-454</a>
	<b>Item no.: 248-455</b> Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-455">www.wago.com/248-455</a>
	<b>Item no.: 248-501</b> Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
	<b>Item no.: 248-501/000-002</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	<a href="http://www.wago.com/248-501/000-002">www.wago.com/248-501/000-002</a>

Subject to changes. Please also observe the further product documentation!

	<p><b>Item no.: 248-501/000-005</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red</p>	<p><a href="http://www.wago.com/248-501/000-005">www.wago.com/248-501/000-005</a></p>
	<p><b>Item no.: 248-501/000-006</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue</p>	<p><a href="http://www.wago.com/248-501/000-006">www.wago.com/248-501/000-006</a></p>
	<p><b>Item no.: 248-501/000-007</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray</p>	<p><a href="http://www.wago.com/248-501/000-007">www.wago.com/248-501/000-007</a></p>
	<p><b>Item no.: 248-501/000-012</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange</p>	<p><a href="http://www.wago.com/248-501/000-012">www.wago.com/248-501/000-012</a></p>
	<p><b>Item no.: 248-501/000-017</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green</p>	<p><a href="http://www.wago.com/248-501/000-017">www.wago.com/248-501/000-017</a></p>
	<p><b>Item no.: 248-501/000-023</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green</p>	<p><a href="http://www.wago.com/248-501/000-023">www.wago.com/248-501/000-023</a></p>
	<p><b>Item no.: 248-501/000-024</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet</p>	<p><a href="http://www.wago.com/248-501/000-024">www.wago.com/248-501/000-024</a></p>
	<p><b>Item no.: 248-502</b> Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><a href="http://www.wago.com/248-502">www.wago.com/248-502</a></p>
	<p><b>Item no.: 248-502/000-024</b> Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet</p>	<p><a href="http://www.wago.com/248-502/000-024">www.wago.com/248-502/000-024</a></p>
	<p><b>Item no.: 248-503</b> Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><a href="http://www.wago.com/248-503">www.wago.com/248-503</a></p>
	<p><b>Item no.: 248-503/000-024</b> Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; violet</p>	<p><a href="http://www.wago.com/248-503/000-024">www.wago.com/248-503/000-024</a></p>
	<p><b>Item no.: 248-504</b> Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><a href="http://www.wago.com/248-504">www.wago.com/248-504</a></p>
	<p><b>Item no.: 248-504/000-024</b> Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; violet</p>	<p><a href="http://www.wago.com/248-504/000-024">www.wago.com/248-504/000-024</a></p>
	<p><b>Item no.: 248-505/000-024</b> Mini-WSB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; violet</p>	<p><a href="http://www.wago.com/248-505/000-024">www.wago.com/248-505/000-024</a></p>

Subject to changes. Please also observe the further product documentation!



**Item no.: 248-506**

Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-506](http://www.wago.com/248-506)

**Item no.: 248-566**

Mini-WSB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white [www.wago.com/248-566](http://www.wago.com/248-566)

## Downloads

### Documentation

#### Instruction Leaflet

pdf  
1.3 MB [Download](#)

#### Additional Information

Disposal; Electrical and electronic equipment, Packaging V 1.0.0 pdf  
265.8 kB [Download](#)

## CAD/CAE-Data

### CAD data

2D/3D Models 789-536 URL [Download](#)

### CAE data

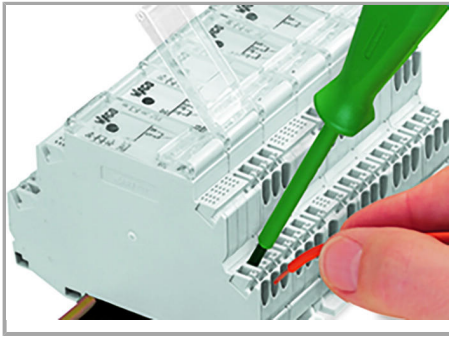
EPLAN Data Portal 789-536 URL [Download](#)

WSCAD Universe 789-536 URL [Download](#)

## Installation Notes

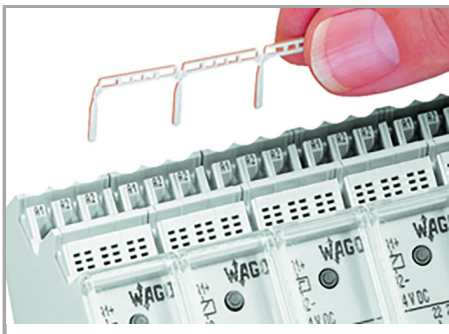
### Inserting a conductor

Subject to changes. Please also observe the further product documentation!



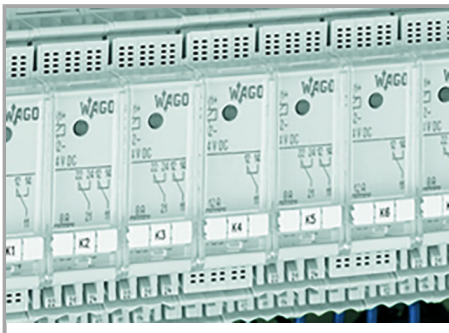
Connection of conductor.

### Jumpered



Easy commoning using adjacent jumpers

### Marking



Marking using miniature WSB quick marking card

Subject to changes. Please also observe the further product documentation!