

**Data sheet | Item number: 788-721**

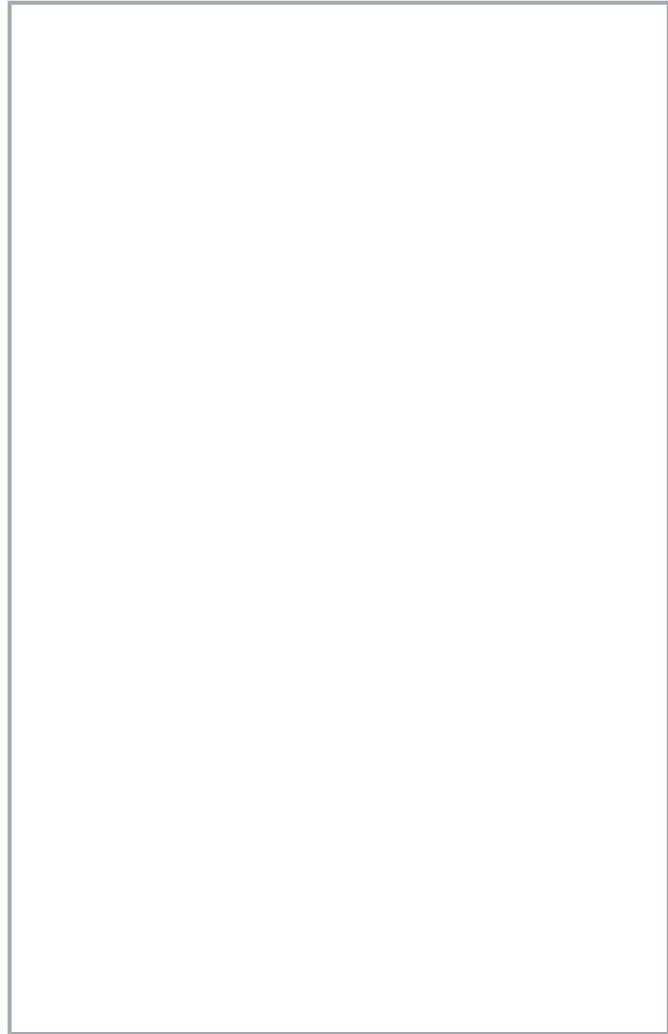
Solid-state relay module; Nominal input voltage: 24 V AC/DC; Output voltage range: 24 ... 230 VAC; Limiting continuous current: 4 A; 2-wire connection; zero-cross switching; Red status indicator; Module width: 15 mm; gray



[www.wago.com/788-721](http://www.wago.com/788-721)



Color:



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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Data

### Notes

#### Note

A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.

---

## Technical data

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

---

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Control Circuit

|                                  |                   |
|----------------------------------|-------------------|
| Nominal input voltage $U_N$      | AC/DC 24 V        |
| Input voltage range (low level)  | AC/DC 0 ... 2.5 V |
| Input voltage range (high level) | AC/DC 15 ... 30 V |
| Nominal input current at $U_N$   | 10 mA             |

## Load circuit

|                               |   |
|-------------------------------|---|
| Circuit type                  | 2-wire connection<br>Zero-voltage switching |
| Limiting continuous current   | 4 A   |
| Nominal output voltage        | AC 230 V                                    |
| Output voltage range          | AC 12 ... 275 V (50/60 Hz)                  |
| Voltage drop at output (max.) | $\leq$ AC 1.1 V                             |
| Voltage drop                  | $\leq$ 1.1 VAC                              |
| Turn-on time                  | $\leq$ 10 ms                                |
| Turn-off time                 | $\leq$ 10 ms                                |
| Switching frequency           | 50 Hz / 60 Hz                               |

## Signaling

|                  |         |
|------------------|---------|
| Status indicator | Red LED |
|------------------|---------|

## Safety and protection

|  |         |
|--|---------|
| Pollution degree                                       | 2       |
| Dielectric strength (control/load circuit) (AC, 1 min) | 4 kVrms |
| Protection type  | IP20    |

## Connection data

|                         |  |
|-------------------------|--|
| Connection technology   | Push-in CAGE CLAMP <sup>®</sup>              |
| Solid conductor         | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Fine-stranded conductor | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches           |

## Physical data

|                                    |                      |
|------------------------------------|----------------------|
| Width                              | 15 mm / 0.591 inches |
| Height from upper-edge of DIN-rail | 64 mm / 2.52 inches  |

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



|       |                      |
|-------|----------------------|
| Depth | 86 mm / 3.386 inches |
|-------|----------------------|

**Mechanical data**

|               |             |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

**Material Data**

|           |          |
|-----------|----------|
| Color     | gray     |
| Fire load | 0.679 MJ |
| Weight    | 49.4 g   |

**Environmental requirements**

|  |  |
|--|--|
| Ambient temperature (operation at $U_N$ )    | -20 ... +70 °C                             |
| Ambient temperature UL (operation at $U_N$ ) | -40 ... +40 °C                             |
| Ambient temperature (storage)                | -40 ... +70 °C                             |
| Processing temperature                       | -25 ... +50 °C                             |
| Temperature range of connection cable        | $\geq (T_{\text{ambient}} + 20 \text{ K})$ |

**Standards and specifications**

|                          |   |
|--------------------------|---|
| Standards/specifications | EN 61000-6-2<br>EN 61000-6-3<br>EN 61373<br>EN 61010-2-201<br>UL 508 (max. 40 °C/2.5 A) |
|--------------------------|---|

**Commercial data**

|                       |                          |
|-----------------------|--------------------------|
| Product Group         | 6 (INTERFACE ELECTRONIC) |
| eCl@ss 10.0           | 27-26-15-03              |
| eCl@ss 9.0            | 27-26-15-03              |
| ETIM 8.0              | EC001504                 |
| ETIM 7.0              | EC001504                 |
| Recupel Type          |                          |
| PU (SPU)              | 15 (1) pcs               |
| Packaging type        | Box                      |
| Country of origin     | DE                       |
| GTIN                  | 4045454945961            |
| Customs tariff number | 85365005000              |

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



## Environmental Product Compliance

|                        |                          |
|------------------------|--------------------------|
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption         | 7(a)                     |

## Approvals / Certificates

### General approvals

| Logo | Approval                                      | Additional Approval Text | Certificate name                        |
|------|---|--------------------------|---|
|      | <b>EAC</b><br>Brjansker Zertifizierungsstelle | TP TC 020/2011           | EAC_Certificate_RU_C-DE.AM02.B.00115_19 |
|      | <b>EAC</b><br>Brjansker Zertifizierungsstelle | TP TC 004/2011           | EAC RU C-DE.AM02.B.00122/19             |

### Declarations of conformity and manufacturer's declarations

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
|      | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

## Optional accessories

### Indicators

| Status indication   |  |  |
|---|--|--|
| <b>Item no.: 788-123</b><br>Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VAC |  | <a href="http://www.wago.com/788-123">www.wago.com/788-123</a> |

### Jumpers

| Jumper  |  |  |
|---|--|--|
| <b>Item no.: 788-116</b><br>Jumper; for jumper slot; 6-way; insulated; light gray |  | <a href="http://www.wago.com/788-116">www.wago.com/788-116</a> |
| <b>Item no.: 788-117</b><br>Jumper; for jumper slot; 8-way; insulated; light gray |  | <a href="http://www.wago.com/788-117">www.wago.com/788-117</a> |
| <b>Item no.: 788-114</b><br>Jumper; for jumper slot; 3-way; insulated; light gray |  | <a href="http://www.wago.com/788-114">www.wago.com/788-114</a> |
| <b>Item no.: 788-113</b><br>Jumper; for jumper slot; 2-way; insulated; light gray |  | <a href="http://www.wago.com/788-113">www.wago.com/788-113</a> |
| <b>Item no.: 788-115</b><br>Jumper; for jumper slot; 4-way; insulated; light gray |  | <a href="http://www.wago.com/788-115">www.wago.com/788-115</a> |
| <b>Item no.: 859-402</b><br>Jumper; for jumper slot; 2-way; insulated; light gray |  | <a href="http://www.wago.com/859-402">www.wago.com/859-402</a> |

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

**Item no.: 788-118**

Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray

[www.wago.com/788-118](http://www.wago.com/788-118)**Marking accessories**

## Marking strip

**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)

## Marking device

**Item no.: 210-110**

Fiber-tip pen

[www.wago.com/210-110](http://www.wago.com/210-110)

## Double marker carrier

**Item no.: 209-128**

Adaptor; gray

[www.wago.com/209-128](http://www.wago.com/209-128)

## Protective marker cover

**Item no.: 209-184**

Protection cover; transparent

[www.wago.com/209-184](http://www.wago.com/209-184)

## Marker

**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)**Item no.: 209-183**

Marker; white

[www.wago.com/209-183](http://www.wago.com/209-183)**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)**Item no.: 793-502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-502](http://www.wago.com/793-502)**Item no.: 793-503**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-503](http://www.wago.com/793-503)**Item no.: 793-504**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-504](http://www.wago.com/793-504)**Item no.: 793-505**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-505](http://www.wago.com/793-505)

## Group marker carrier

**Item no.: 209-145**

Group marker carrier; white

[www.wago.com/209-145](http://www.wago.com/209-145)**Item no.: 249-105**

Group marker carrier; gray

[www.wago.com/249-105](http://www.wago.com/249-105)**Tool**

## Operating tool

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

WAGO GmbH &amp; Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

**Item no.: 210-720**

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

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

## 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)**Item no.: 216-542**Twin ferrule; Sleeve for 2 x 1 mm<sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red[www.wago.com/216-542](http://www.wago.com/216-542)**Filter Module**

## Suppressor module

**Item no.: 788-148**

Filter module; RC filter element; Nominal voltage: 230 VAC

[www.wago.com/788-148](http://www.wago.com/788-148)**Downloads****Documentation****Bid Text**

|                         |              |                 |          |
|-------------------------|--------------|-----------------|----------|
| 788-721<br>docx - Datei | 2019 年2月20 日 | docx<br>16.0 kB | Download |
|-------------------------|--------------|-----------------|----------|

|                        |              |               |          |
|------------------------|--------------|---------------|----------|
| 788-721<br>X81 - Datei | 2019 年2月19 日 | xml<br>4.2 kB | Download |
|------------------------|--------------|---------------|----------|

**Instruction Leaflet**

|                                    |                         |               |          |
|------------------------------------|-------------------------|---------------|----------|
| Sockets with Elementary Relay/ SSR | V 1.0.1<br>2020 年10月9 日 | pdf<br>2.3 MB | Download |
|------------------------------------|-------------------------|---------------|----------|

**Additional Information**

|   |                         |               |          |
|---|-------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 年8月18 日 | pdf<br>2.2 MB | Download |
|---|-------------------------|---------------|----------|

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



## CAD/CAE-Data

### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 788-721 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 788-721 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

|                        |                     |                          |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 788-721 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------|---------------------|--------------------------|

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 788-721 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

## Environmental Product Compliance

### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 788-721 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

Solid-state relay module; Nominal input voltage: 24 V AC/DC; Output voltage range: 24 ... 230 VAC; Limiting continuous current: 4 A; 2-wire connection; zero-cross switching; Red status indicator; Module width: 15 mm; gray

## Installation Notes

### Conductor termination



Conductor termination

### Commoning

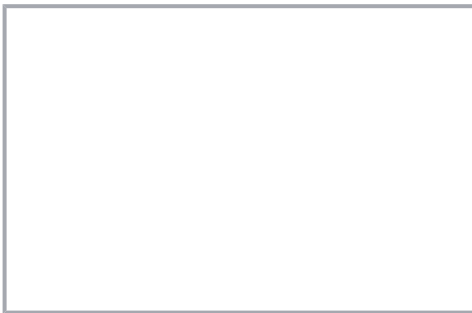
Subject to changes. Please also observe the further product documentation!





Easy commoning using adjacent jumpers

### Marking



Marking using WMB Multi markers and group marker carriers.

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