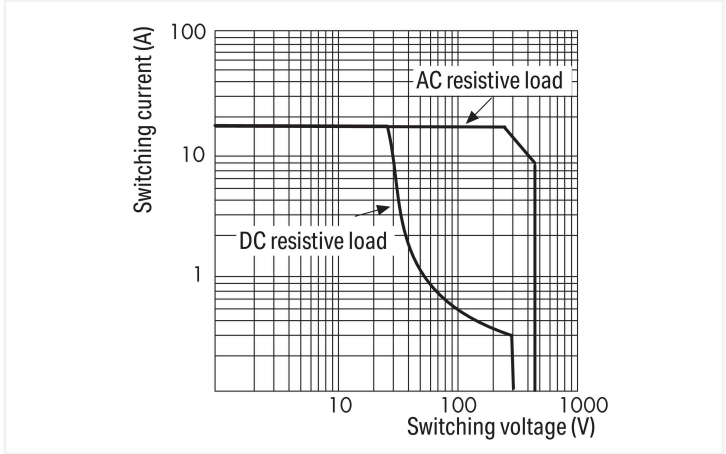
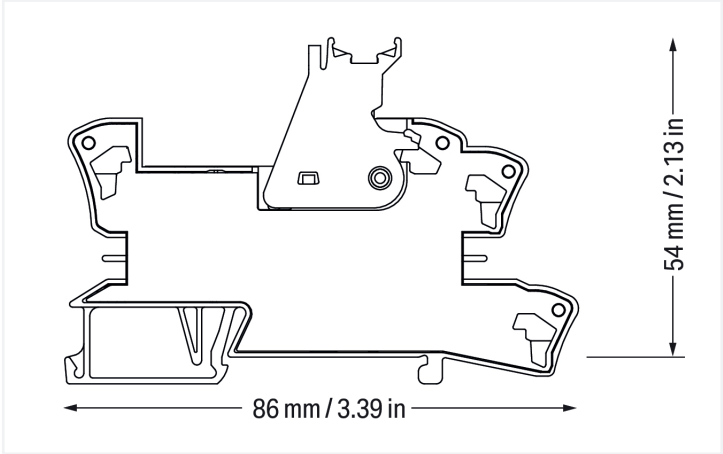
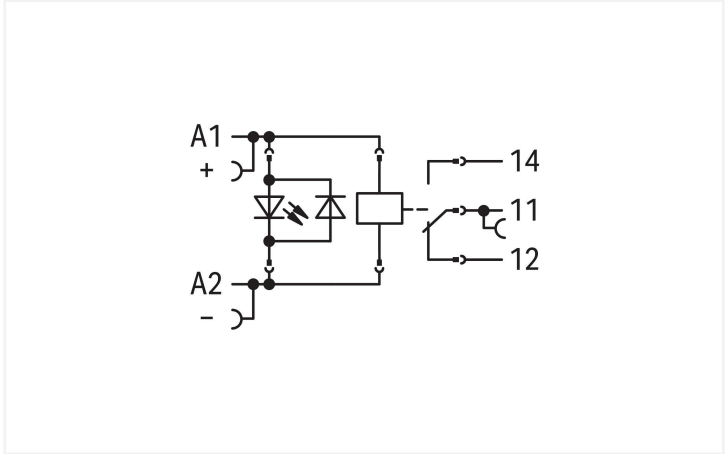
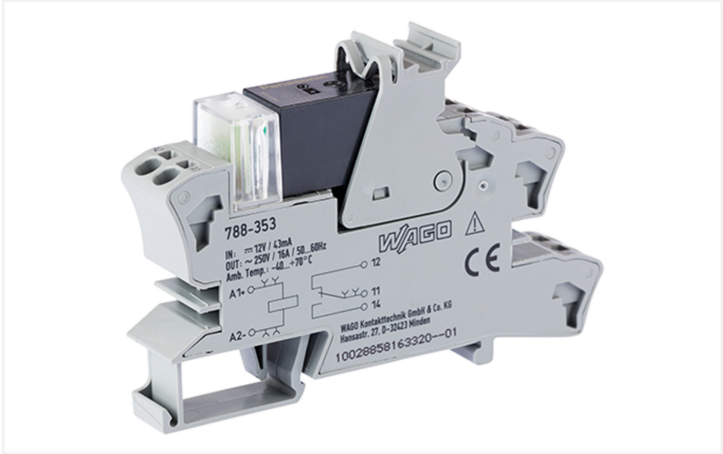


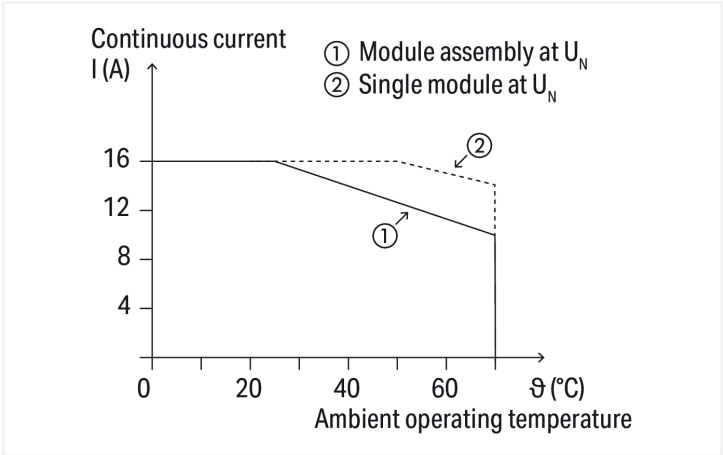
**Data Sheet | Item Number: 788-353**

Relay module; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 16 A; for lamp loads; Red status indicator; Module width: 15 mm

<https://www.wago.com/788-353>



Load limit curve



Current-carrying capacity curve



| Notes              |                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | 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. |
| Note               | Reinforced insulation between coil and contacts<br>To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.            |

| Technical data                              |                                            |
|---------------------------------------------|--------------------------------------------|
| Control circuit                             |                                            |
| Nominal input voltage U <sub>N</sub>        | 12 VDC                                     |
| Input voltage range                         | -15 ... +20 %                              |
| Nominal input current at U <sub>N</sub>     | 35 mA                                      |
| Load circuit                                |                                            |
| Number of changeover/switchover contacts    | 1                                          |
| Contact material (relay)                    | AgSnO <sub>2</sub>                         |
| Limiting continuous current                 | 16 A                                       |
| Inrush current (resistive) max.             | (AC) 120 A / 0.05 s                        |
| Switching Voltage, Max.                     | 250 VAC                                    |
| Switching power (resistive) max.            | AC 4000 VA; DC (see load limit curve)      |
| Recommended minimum load                    | 5 V / 100 mA                               |
| Pull-in time (typ.)                         | 15 ms                                      |
| Drop-out time (typ.)                        | 5 ms                                       |
| Electrical life (NO; resistive load; 23 °C) | 100 x 10 <sup>3</sup> switching operations |
| Mechanical life                             | 10 x 10 <sup>6</sup> switching operations  |

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

| Safety and protection                                  |                                                                                                                                                                               |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                                          | 250 V                                                                                                                                                                         |
| Rated impulse withstand voltage                        | 4 kV                                                                                                                                                                          |
| Pollution degree                                       | 3                                                                                                                                                                             |
| Dielectric strength (control/load circuit) (AC, 1 min) | 5 kVrms                                                                                                                                                                       |
| Dielectric strength (open contact) (AC, 1 min)         | 1 kVrms                                                                                                                                                                       |
| Safety Information                                     | 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. |
| Protection type                                        | IP20                                                                                                                                                                          |

| Connection data         |                                    |
|-------------------------|------------------------------------|
| Connection technology   | Push-in CAGE CLAMP®                |
| Solid conductor         | 0.34 ... 2.5 mm² / 22 ... 14 AWG   |
| Fine-stranded conductor | 0.34 ... 2.5 mm² / 22 ... 14 AWG   |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches |

| Physical data                     |                      |
|-----------------------------------|----------------------|
| Width                             | 15 mm / 0.591 inches |
| Height                            | 86 mm / 3.386 inches |
| Depth from upper-edge of DIN-rail | 54 mm / 2.126 inches |



| Mechanical data |  |             |
|-----------------|--|-------------|
| Mounting type   |  | DIN-35 rail |

| Material data        |  |                                                                          |
|----------------------|--|--------------------------------------------------------------------------|
| Note (material data) |  | <a href="#">Information on material specifications can be found here</a> |
| Fire load            |  | 0.67 MJ                                                                  |
| Weight               |  | 44.4 g                                                                   |

| Environmental requirements                         |  |                                 |
|----------------------------------------------------|--|---------------------------------|
| Ambient temperature (operation at U <sub>N</sub> ) |  | -40 ... +70 °C                  |
| Ambient temperature (storage)                      |  | -40 ... +70 °C                  |
| Processing temperature                             |  | -25 ... +50 °C                  |
| Temperature range of connection cable              |  | ≥ (T <sub>ambient</sub> + 20 K) |

| Standards and specifications |  |                                                                |
|------------------------------|--|----------------------------------------------------------------|
| Standards/specifications     |  | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>UL 508 (max. 10 A) |

| Basic relay      |  |         |
|------------------|--|---------|
| WAGO Basic Relay |  | 788-196 |

| Commercial data       |  |                          |
|-----------------------|--|--------------------------|
| Product Group         |  | 6 (INTERFACE ELECTRONIC) |
| PU (SPU)              |  | 20 (1) pcs               |
| Packaging type        |  | Box                      |
| Country of origin     |  | DE                       |
| GTIN                  |  | 4045454545864            |
| Customs tariff number |  | 85364900990              |

| Product classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39122334             |
| eCl@ss 10.0            |  | 27-37-16-01          |
| eCl@ss 9.0             |  | 27-37-16-01          |
| ETIM 9.0               |  | EC001437             |
| ETIM 8.0               |  | EC001437             |
| ECCN                   |  | NO US CLASSIFICATION |

| Environmental Product Compliance |  |                         |
|----------------------------------|--|-------------------------|
| RoHS Compliance Status           |  | Compliant, No Exemption |



Approvals / Certificates

General approvals

EAC

| Approval                   | Standard       | Certificate Name |
|----------------------------|----------------|------------------|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03084    |

Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product  
Compliance 788-353

↓

Documentation

Bid Text

|         |            |                  |   |
|---------|------------|------------------|---|
| 788-353 | 25.01.2019 | docx<br>16.56 KB | ↓ |
| 788-353 | 19.02.2019 | xml<br>4.85 KB   | ↓ |

Instruction Leaflet

|                                         |                       |                   |   |
|-----------------------------------------|-----------------------|-------------------|---|
| Sockets with Elementa-<br>ry Relay/ SSR | V 1.0.1<br>09.10.2020 | pdf<br>2271.22 KB | ↓ |
|-----------------------------------------|-----------------------|-------------------|---|

CAD/CAE-Data

CAD data

2D/3D Models 788-353

↓

CAE data

EPLAN Data Portal  
788-353

↓

WSCAD Universe  
788-353

↓

ZUKEN Portal 788-353

↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Basic relay

1.1.1.1 Basic relay



Item No.: 788-196

Basic relay; Nominal input voltage: 12  
VDC; 1 changeover contact; Limiting con-  
tinuous current: 16 A; for lamp loads; Mo-  
dule width: 13 mm



1.1.2 Ferrule

1.1.2.1 Ferrule



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-242**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-243**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-244**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-542**  
Twin ferrule; Sleeve for 2 x 1 mm² / AWG 2 x 18; red, insulated; 12 mm long; red

1.1.3 Indicators

1.1.3.1 Status indication



**Item No.: 788-120**  
Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC

1.1.4 Jumper

1.1.4.1 Jumper



**Item No.: 788-118**  
Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray



**Item No.: 788-113**  
Jumper; for jumper slot; 2-way; insulated; light gray



**Item No.: 859-402**  
Jumper; for jumper slot; 2-way; insulated; light gray



**Item No.: 788-114**  
Jumper; for jumper slot; 3-way; insulated; light gray



**Item No.: 788-115**  
Jumper; for jumper slot; 4-way; insulated; light gray



**Item No.: 788-116**  
Jumper; for jumper slot; 6-way; insulated; light gray



**Item No.: 788-117**  
Jumper; for jumper slot; 8-way; insulated; light gray

1.1.5 Marking

1.1.5.1 Double marker carrier



**Item No.: 209-128**  
Adaptor; gray



1.1.5.2 Group marker carrier



[Item No.: 249-105](#)  
Group marker carrier; gray



[Item No.: 209-145](#)  
Group marker carrier; white

1.1.5.3 Marker



[Item No.: 209-183](#)  
Marker; white



[Item No.: 793-502](#)  
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



[Item No.: 793-503](#)  
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



[Item No.: 793-504](#)  
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



[Item No.: 793-505](#)  
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



[Item No.: 793-501](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; white



[Item No.: 2009-115](#)  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.5.4 Marking device



[Item No.: 210-110](#)  
Fiber-tip pen

1.1.5.5 Marking strip



[Item No.: 2009-110](#)  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.5.6 Protective marker cover



[Item No.: 209-184](#)  
Protection cover; transparent

1.1.6 Tool

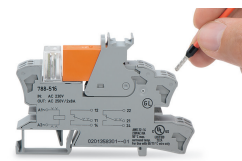
1.1.6.1 Operating tool



[Item No.: 210-720](#)  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

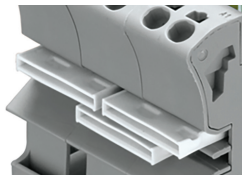
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking using WMB Multi markers and group marker carriers.