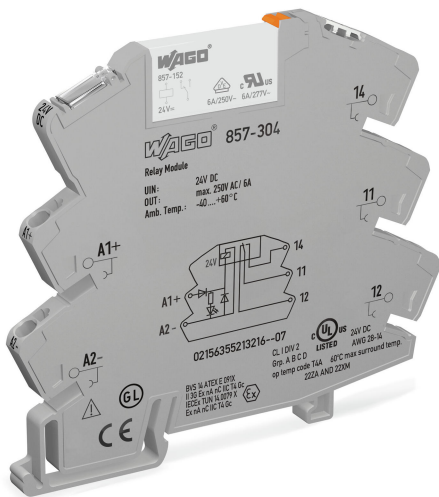


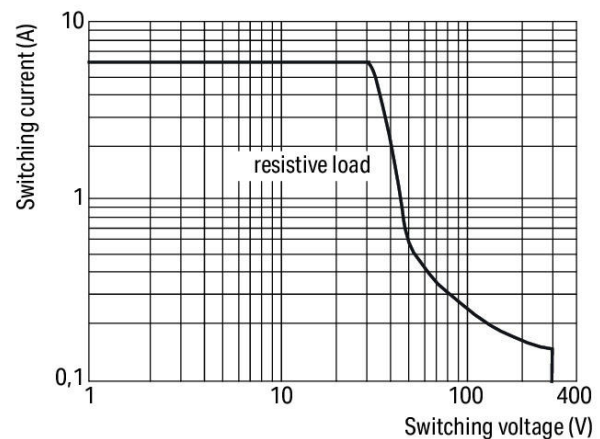
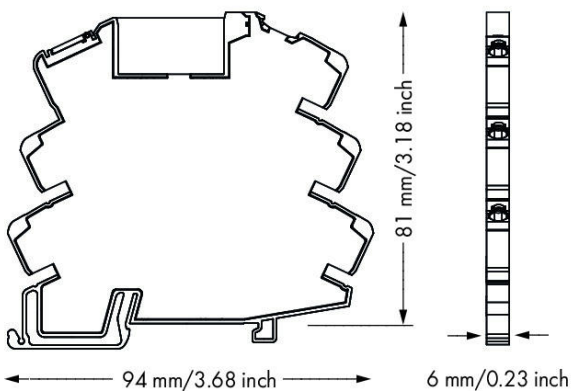
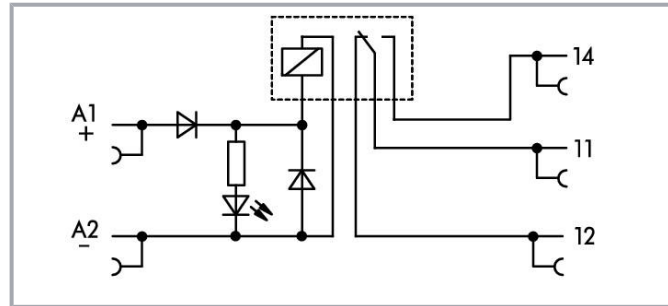
## Data sheet | Item number: 857-304

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact;  
Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm; 2,50 mm<sup>2</sup>; gray

[www.wago.com/857-304](http://www.wago.com/857-304)



Color: ■



DC load limit curve

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

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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

### Technical data

#### Control circuit

|                                |               |
|--------------------------------|---------------|
| Nominal input voltage $U_N$    | DC 24 V       |
| Input voltage range            | -15 ... +20 % |
| Nominal input current at $U_N$ | 10 mA         |

#### Load circuit

|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| Number of changeover/switchover contacts     | 1                                           |
| Contact material (relay)                     | AgSnO <sub>2</sub>                          |
| Limiting continuous current                  | 6 A                                         |
| Inrush current (resistive) (max.)            | (AC) 20 A / 0.02 s                          |
| Switching voltage (max.)                     | AC 250 V                                    |
| Switching power (resistive) (max.)           | AC 1500 VA; DC (see load limit curve)       |
| Switching capacity                           | AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V |
| Recommended minimum load                     | 10 V / 10 mA; 24 V / 1 mA                   |
| Pull-in time (typ.)                          | 6 ms                                        |
| Drop-out time (typ.)                         | 6 ms                                        |
| Bounce time (typ.)                           | 3.5 ms                                      |
| Electrical life (NO; resistive load; 23 °C)  | 50 x 10 <sup>3</sup> switching operations   |
| Mechanical life                              | 5 x 10 <sup>6</sup> switching operations    |
| Switching frequency with/without load (max.) | 6 min <sup>-1</sup> / 180 min <sup>-1</sup> |

#### Signaling

|                  |            |
|------------------|------------|
| Status indicator | Yellow LED |
|------------------|------------|

#### Safety and protection

|                                                       |                |
|-------------------------------------------------------|----------------|
| Rated voltage                                         | 300 V          |
| Rated surge voltage                                   | 4 kV           |
| Circuit type                                          | Mains circuits |
| Overvoltage category                                  | III            |
| Pollution degree                                      | 2              |
| Dielectric strength, control/load circuit (AC, 1 min) | 3.51 kVrms     |

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



|                                                                 |                                        |
|-----------------------------------------------------------------|----------------------------------------|
| Dielectric strength, open contact (AC, 1 min)                   | 1 kVrms                                |
| Insulation type (control/load circuit)                          | Reinforced insulation (safe isolation) |
| Insulation type (between adjacent devices of the the same type) | Reinforced insulation (safe isolation) |
| 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 |
| Conductor diameter      | 22 ... 14 AWG                    |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inch |

### Physical data

|                                   |                    |
|-----------------------------------|--------------------|
| Width                             | 6 mm / 0.236 inch  |
| Height                            | 94 mm / 3.701 inch |
| Depth from upper edge of DIN-rail | 81 mm / 3.189 inch |

### Mechanical data

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

### Material data

|        |        |
|--------|--------|
| Color  | gray   |
| Weight | 31.6 g |

### Environmental requirements

|                                                   |                                          |
|---------------------------------------------------|------------------------------------------|
| Surrounding air temperature (operation at $U_N$ ) | -40 ... 60 °C                            |
| Surrounding air temperature (storage)             | -40 ... 70 °C                            |
| Processing temperature                            | -25 ... +50 °C                           |
| Relative humidity                                 | 5 ... 95 % (no condensation permissible) |
| Operating altitude (max.)                         | 2000 m                                   |

### Standards and specifications

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Standards/Specifications | EN 61010-2-201<br>EN 61810-1<br>EN 61373<br>UL 508 |
|--------------------------|----------------------------------------------------|

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



GL  
ATEX  
IEC Ex

## Basic relay

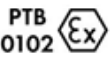
|                  |         |
|------------------|---------|
| WAGO Basic Relay | 857-152 |
|------------------|---------|

## Commercial data

|                       |                           |
|-----------------------|---------------------------|
| Product Group         | 6 (Interface Electronics) |
| PU (SPU)              | 25 (1) Stück              |
| Packaging type        | box                       |
| Country of origin     | CN                        |
| GTIN                  | 4050821797807             |
| Customs tariff number | 85364900990               |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                                                      | Approval                                                   | Additional Approval Text | Certificate name    |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------|---------------------|
|                         | ATEX<br>DEKRA EXAM GmbH                                    | EN 60079-0               | BVS_14_ATEX_E_091_X |
| <br>Ex nA nC IIC T4 Gc | CCCEX<br>CQST/CNEx                                         | CNCA-C23-01              | 2020312304000757    |
|                         | IECEX<br>DEKRA EXAM GmbH                                   | IEC 60079-0              | IECEX_BVS_14.0079_X |
|                         | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                | E198726             |

### Ship Approvals

| Logo | Approval                  | Additional Approval Text        | Certificate name |
|------|---------------------------|---------------------------------|------------------|
|      | BV<br>Bureau Veritas S.A. | Rules for class. of Steel Ships | 40179_B0         |

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

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**DNV GL**

Det Norske Veritas, Germanischer Lloyd

-

TAA00001D1

**NK**

Nippon Kaiji Kyokai

-

TA17255M

**PRS**

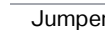
Polski Rejestr Statków

-

TE/2186  
/880590/18**UL-Approvals**

| Logo                                                                             | Approval                                                            | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.4 |

**Optional accessories****Jumpers**

|                                                                                    |                                                                                     |  |                                                                                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|
|  | <b>Jumper</b>                                                                       |  |                                                                                |
|  | <b>Item no.: 859-408</b><br>Jumper; for jumper slot; 8-way; insulated; light gray   |  | <a href="http://www.wago.com/859-408">www.wago.com/859-408</a>                 |
|  | <b>Item no.: 281-482</b><br>Jumper; insulated; gray                                 |  | <a href="http://www.wago.com/281-482">www.wago.com/281-482</a>                 |
|  | <b>Item no.: 859-404/000-005</b><br>Jumper; for jumper slot; 4-way; insulated; red  |  | <a href="http://www.wago.com/859-404/000-005">www.wago.com/859-404/000-005</a> |
|  | <b>Item no.: 859-404/000-006</b><br>Jumper; for jumper slot; 4-way; insulated; blue |  | <a href="http://www.wago.com/859-404/000-006">www.wago.com/859-404/000-006</a> |
|  | <b>Item no.: 859-405/000-005</b><br>Jumper; for jumper slot; 5-way; insulated; red  |  | <a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a> |

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



**Item no.: 859-405/000-029**  
Jumper; for jumper slot; 5-way; insulated; yellow

[www.wago.com/859-405/000-029](http://www.wago.com/859-405/000-029)



**Item no.: 859-405**  
Jumper; for jumper slot; 5-way; insulated; light gray

[www.wago.com/859-405](http://www.wago.com/859-405)



**Item no.: 859-404/000-029**  
Jumper; for jumper slot; 4-way; insulated; yellow

[www.wago.com/859-404/000-029](http://www.wago.com/859-404/000-029)



**Item no.: 859-406**  
Jumper; for jumper slot; 6-way; insulated; light gray

[www.wago.com/859-406](http://www.wago.com/859-406)



**Item no.: 859-405/000-006**  
Jumper; for jumper slot; 5-way; insulated; blue

[www.wago.com/859-405/000-006](http://www.wago.com/859-405/000-006)



**Item no.: 859-406/000-005**  
Jumper; for jumper slot; 6-way; insulated; red

[www.wago.com/859-406/000-005](http://www.wago.com/859-406/000-005)



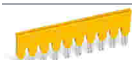
**Item no.: 859-409/000-029**  
Jumper; for jumper slot; 9-way; insulated; yellow

[www.wago.com/859-409/000-029](http://www.wago.com/859-409/000-029)



**Item no.: 859-410/000-005**  
Jumper; for jumper slot; 10-way; insulated; red

[www.wago.com/859-410/000-005](http://www.wago.com/859-410/000-005)



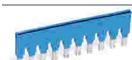
**Item no.: 859-410/000-029**  
Jumper; for jumper slot; 10-way; insulated; yellow

[www.wago.com/859-410/000-029](http://www.wago.com/859-410/000-029)



**Item no.: 859-410**  
Jumper; for jumper slot; 10-way; insulated; light gray

[www.wago.com/859-410](http://www.wago.com/859-410)



**Item no.: 859-410/000-006**  
Jumper; for jumper slot; 10-way; insulated; blue

[www.wago.com/859-410/000-006](http://www.wago.com/859-410/000-006)



**Item no.: 859-403/000-005**  
Jumper; for jumper slot; 3-way; insulated; red

[www.wago.com/859-403/000-005](http://www.wago.com/859-403/000-005)



**Item no.: 859-402/000-029**  
Jumper; for jumper slot; 2-way; insulated; yellow

[www.wago.com/859-402/000-029](http://www.wago.com/859-402/000-029)



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



|                                                                                    |                                                                                       |                                                                                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                                    | <b>Item no.: 859-403/000-029</b><br>Jumper; for jumper slot; 3-way; insulated; yellow | <a href="http://www.wago.com/859-403/000-029">www.wago.com/859-403/000-029</a> |
|    | <b>Item no.: 859-403/000-006</b><br>Jumper; for jumper slot; 3-way; insulated; blue   | <a href="http://www.wago.com/859-403/000-006">www.wago.com/859-403/000-006</a> |
|    | <b>Item no.: 859-408/000-005</b><br>Jumper; for jumper slot; 8-way; insulated; red    | <a href="http://www.wago.com/859-408/000-005">www.wago.com/859-408/000-005</a> |
|    | <b>Item no.: 859-408/000-029</b><br>Jumper; for jumper slot; 8-way; insulated; yellow | <a href="http://www.wago.com/859-408/000-029">www.wago.com/859-408/000-029</a> |
|    | <b>Item no.: 859-409</b><br>Jumper; for jumper slot; 9-way; insulated; light gray     | <a href="http://www.wago.com/859-409">www.wago.com/859-409</a>                 |
|    | <b>Item no.: 859-408/000-006</b><br>Jumper; for jumper slot; 8-way; insulated; blue   | <a href="http://www.wago.com/859-408/000-006">www.wago.com/859-408/000-006</a> |
|    | <b>Item no.: 859-403</b><br>Jumper; for jumper slot; 3-way; insulated; light gray     | <a href="http://www.wago.com/859-403">www.wago.com/859-403</a>                 |
|   | <b>Item no.: 859-409/000-005</b><br>Jumper; for jumper slot; 9-way; insulated; red    | <a href="http://www.wago.com/859-409/000-005">www.wago.com/859-409/000-005</a> |
|  | <b>Item no.: 859-404</b><br>Jumper; for jumper slot; 4-way; insulated; light gray     | <a href="http://www.wago.com/859-404">www.wago.com/859-404</a>                 |
|  | <b>Item no.: 859-409/000-006</b><br>Jumper; for jumper slot; 9-way; insulated; blue   | <a href="http://www.wago.com/859-409/000-006">www.wago.com/859-409/000-006</a> |
|  | <b>Item no.: 859-402/000-006</b><br>Jumper; for jumper slot; 2-way; insulated; blue   | <a href="http://www.wago.com/859-402/000-006">www.wago.com/859-402/000-006</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>                 |
|  | <b>Item no.: 859-402/000-005</b><br>Jumper; for jumper slot; 2-way; insulated; red    | <a href="http://www.wago.com/859-402/000-005">www.wago.com/859-402/000-005</a> |
|  | <b>Item no.: 859-406/000-006</b><br>Jumper; for jumper slot; 6-way; insulated; blue   | <a href="http://www.wago.com/859-406/000-006">www.wago.com/859-406/000-006</a> |

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

**Item no.: 859-406/000-029**

Jumper; for jumper slot; 6-way; insulated; signal yellow

[www.wago.com/859-406/000-029](http://www.wago.com/859-406/000-029)**Item no.: 859-407/000-006**

Jumper; for jumper slot; 7-way; insulated; blue

[www.wago.com/859-407/000-006](http://www.wago.com/859-407/000-006)**Item no.: 859-407/000-005**

Jumper; for jumper slot; 7-way; insulated; red

[www.wago.com/859-407/000-005](http://www.wago.com/859-407/000-005)**Item no.: 859-407/000-029**

Jumper; for jumper slot; 7-way; insulated; yellow

[www.wago.com/859-407/000-029](http://www.wago.com/859-407/000-029)**Item no.: 859-407**

Jumper; for jumper slot; 7-way; insulated; light gray

[www.wago.com/859-407](http://www.wago.com/859-407)**Tool**

Operating tool

**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)**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

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

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**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 card; 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)



**Item no.: 793-506**  
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-506](http://www.wago.com/793-506)



**Item no.: 793-566**  
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-566](http://www.wago.com/793-566)



**Item no.: 793-5501**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/793-5501](http://www.wago.com/793-5501)

#### Group marker carrier



**Item no.: 249-105**  
Group marker carrier; gray

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

#### Interface module

##### Interface adapter

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



|                                                                                 |                                                                                    |                                                                |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 857-982</b><br>Interface adapter; 14-pole; High-side switching output | <a href="http://www.wago.com/857-982">www.wago.com/857-982</a> |
|  | <b>Item no.: 857-986</b><br>Interface adapter; 15-pole; High-side switching input  | <a href="http://www.wago.com/857-986">www.wago.com/857-986</a> |
|  | <b>Item no.: 857-981</b><br>Interface adapter; 14-pole; High-side switching input  | <a href="http://www.wago.com/857-981">www.wago.com/857-981</a> |

## Downloads

### Documentation

#### Bid Text

|                         |                  |                 |          |
|-------------------------|------------------|-----------------|----------|
| 857-304<br>X81 - Datei  | 19 февр. 2019 г. | xml<br>4.8 kB   | Download |
| 857-304<br>docx - Datei | 20 февр. 2019 г. | docx<br>16.8 kB | Download |

#### Instruction Leaflet

|                                                       |                           |               |          |
|-------------------------------------------------------|---------------------------|---------------|----------|
| Elektromechanical and Solid-State Relays/Optocouplers | V 1.4.1<br>9 окт. 2020 г. | pdf<br>2.6 MB | Download |
|-------------------------------------------------------|---------------------------|---------------|----------|

#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|----------------------------------------------------------|---------|-----------------|----------|

## CAD/CAE-Data

### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 857-304 | URL | Download |
| WSCAD Universe 857-304    | URL | Download |
| ZUKEN Portal 857-304      | URL | Download |

### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 857-304 | URL | Download |
|----------------------|-----|----------|

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

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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?  
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 857-304

URL

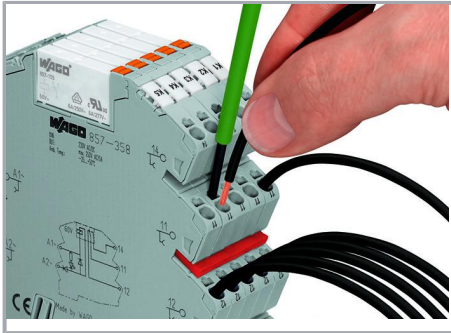
Download

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm; 2,50 mm<sup>2</sup>; gray

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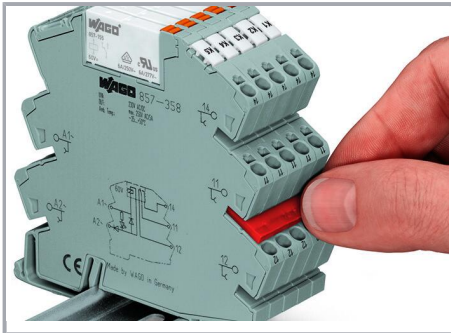
## Installation Notes

### Conductor termination



### Conductor termination

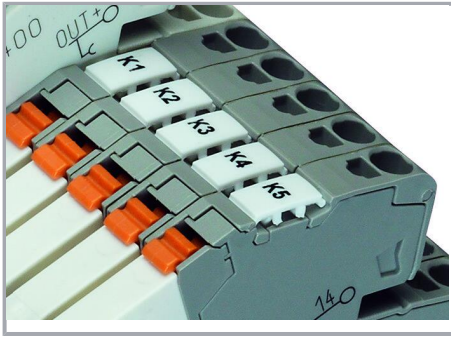
### Commoning



### Easy commoning using adjacent jumpers

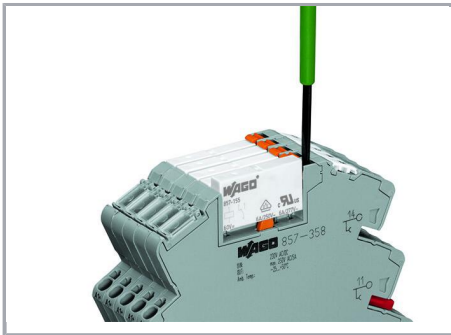
### Marking

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



Marking via WMB Multi Marking System.

#### Installation



Removing a relay via ejector.

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

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