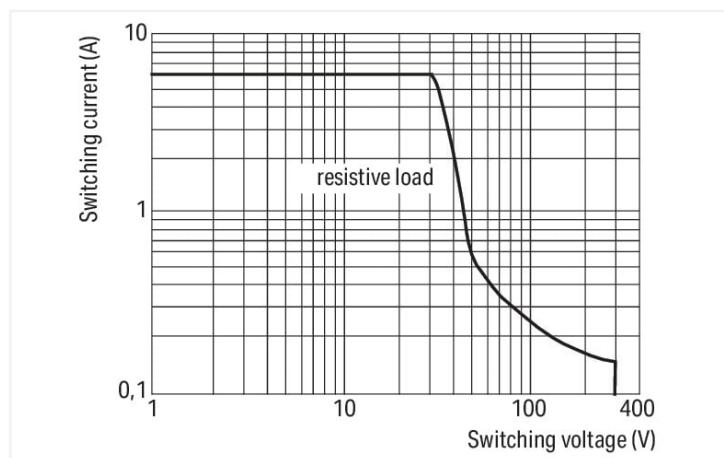
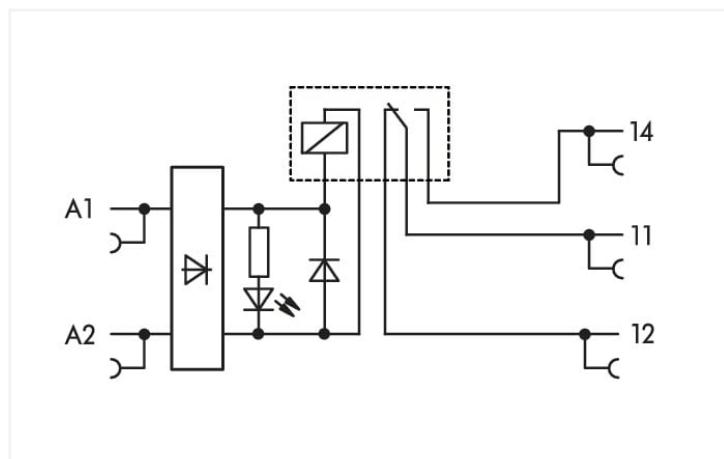
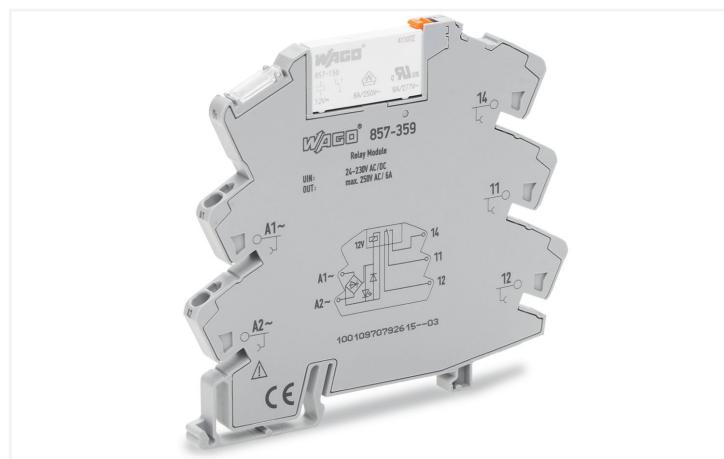
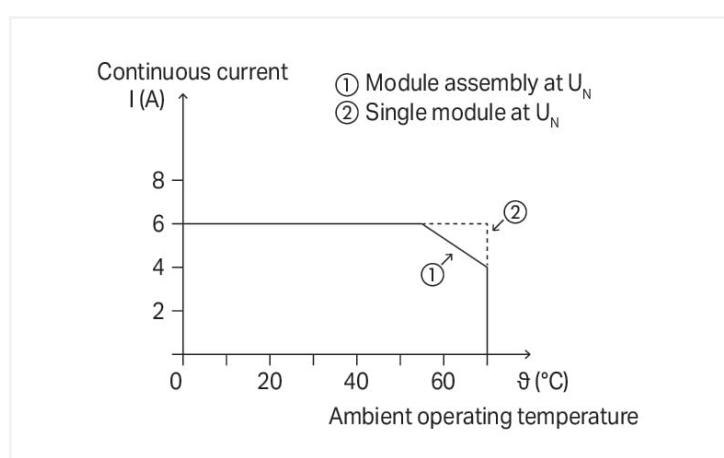
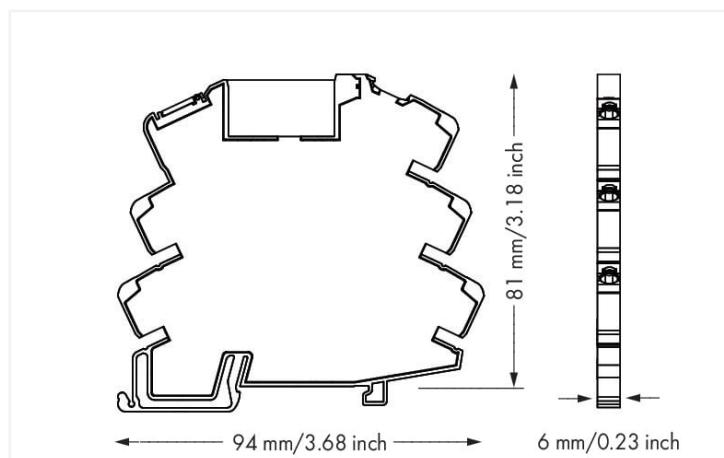


<https://www.wago.com/857-359>



DC load limit curve



Current-carrying capacity curve

## Notes

Safety information

Adjacent devices are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.

Note

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

## Technical data

### Control Circuit

Nominal input voltage $U_N$	AC/DC 24 ... 230 V
Input voltage range	-30 ... +10 %
Nominal input current at $U_N$	4 mA (230 VAC); 20 mA (24 VDC)
Nominal frequency range (input voltage)	50 ... 60 HzAC / 0 HzDC

### 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.)	15 ms
Drop-out time (typ.)	25 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> / 60 min <sup>-1</sup>

## Signaling

Status indicator	Yellow LED
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## Safety and protection

Rated voltage	300 V
Rated surge voltage	4 kV
Type of circuits	Mains circuits
Overvoltage category	III
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3.51 kVrms
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 same type)	Double insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Basic insulation
Safety information	Adjacent devices are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.
Protection type	IP20

**Connection data**

Connection technology	Push-in CAGE CLAMP®
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
Fine-stranded conductor; with insulated ferrule	0.34 ... 1.5 mm <sup>2</sup> / 22 ... 16 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

**Physical data**

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

**Mechanical data**

Mounting type	DIN-35 rail
Mounting position	horizontal (standing/lying); vertical

**Material Data**

Fire load	0.552 MJ
Weight	30.9 g

**Environmental requirements**

Ambient temperature (operation at U <sub>N</sub> )	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T <sub>ambient</sub> + 30 K)
Relative humidity	5 ... 85 % (no condensation permissible)
Operating altitude (max.)	2000 m

**Standards and specifications**

Standards/specifications	EN 50121-3-2 EN 61010-2-201 EN 61810-1 EN 61373 EN 61000-6-2 EN 61000-6-3 EN 50121-3 UL 508
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**Basic relay**

WAGO Basic Relay	857-150
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**Commercial data**

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-37-16-01
eCl@ss 9.0	27-37-16-01
ETIM 8.0	EC001437
ETIM 7.0	EC001437
PU (SPU)	25 (1) pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821856689
Customs tariff number	85364900990

## Approvals / Certificates

## General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011	EAC RU C-DE.AM02. B.00122/19
UL UL International Nether- lands B.V. (ORDINARY LO- CATIONS)	UL 508	E175199 Sec.4

## Downloads

## Environmental Product Compliance

## Compliance Search

Environmental Product  
Compliance 857-359

## Documentation

## Additional Information

Confirmation for use in  
railway applications,  
857-359, 857-369pdf  
360.66 KB

## Bid Text

857-359  
19.02.2019  
xml  
5.04 KB857-359  
20.02.2019  
docx  
16.86 KB

## CAD/CAE-Data

## CAD data

2D/3D Models 857-359



## CAE data

EPLAN Data Portal  
857-359WSCAD Universe  
857-359

ZUKEN Portal 857-359



## 1 Compatible Products

## 1.1 Optional Accessories

## 1.1.1 Basic relay

### 1.1.1 Basic relay



#### Item No.: 857-150

Basic relay; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm

### 1.1.2 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



#### 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



#### 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



#### 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

### 1.1.3 Jumper

#### 1.1.3.1 Jumper



#### Item No.: 281-482

Jumper; 2-way; insulated; gray



#### Item No.: 859-410/000-006

Jumper; for jumper slot; 10-way; insulated; blue



#### Item No.: 859-410

Jumper; for jumper slot; 10-way; insulated; light gray



#### Item No.: 859-410/000-005

Jumper; for jumper slot; 10-way; insulated; red



#### Item No.: 859-410/000-029

Jumper; for jumper slot; 2-way; insulated; yellow



#### Item No.: 859-402/000-006

Jumper; for jumper slot; 2-way; insulated; blue



#### Item No.: 859-402

Jumper; for jumper slot; 2-way; insulated; light gray



#### Item No.: 859-402/000-005

Jumper; for jumper slot; 2-way; insulated; red



#### Item No.: 859-402/000-029

Jumper; for jumper slot; 3-way; insulated; yellow



#### Item No.: 859-403/000-006

Jumper; for jumper slot; 3-way; insulated; blue



#### Item No.: 859-403

Jumper; for jumper slot; 3-way; insulated; light gray



#### Item No.: 859-403/000-005

Jumper; for jumper slot; 3-way; insulated; red



#### Item No.: 859-403/000-029

Jumper; for jumper slot; 4-way; insulated; yellow



#### Item No.: 859-404/000-006

Jumper; for jumper slot; 4-way; insulated; blue



#### Item No.: 859-404

Jumper; for jumper slot; 4-way; insulated; light gray



#### Item No.: 859-404/000-005

Jumper; for jumper slot; 4-way; insulated; red



#### Item No.: 859-404/000-029

Jumper; for jumper slot; 5-way; insulated; yellow



#### Item No.: 859-405/000-006

Jumper; for jumper slot; 5-way; insulated; blue



#### Item No.: 859-405

Jumper; for jumper slot; 5-way; insulated; light gray



#### Item No.: 859-405/000-005

Jumper; for jumper slot; 5-way; insulated; red



#### Item No.: 859-405/000-029

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



#### Item No.: 859-406/000-006

Jumper; for jumper slot; 6-way; insulated; blue



#### Item No.: 859-406

Jumper; for jumper slot; 6-way; insulated; light gray



#### Item No.: 859-406/000-005

Jumper; for jumper slot; 6-way; insulated; red



#### Item No.: 859-406/000-029

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



#### Item No.: 859-407/000-006

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



#### Item No.: 859-407

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



#### Item No.: 859-407/000-005

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



#### Item No.: 859-407/000-029

Jumper; for jumper slot; 8-way; insulated; yellow



#### Item No.: 859-408/000-006

Jumper; for jumper slot; 8-way; insulated; blue



#### Item No.: 859-408

Jumper; for jumper slot; 8-way; insulated; light gray



#### Item No.: 859-408/000-005

Jumper; for jumper slot; 8-way; insulated; red

### 1.1.3.1 Jumper

[Item No.: 859-408/000-029](#)

Jumper; for jumper slot; 8-way; insulated; yellow

[Item No.: 859-409/000-006](#)

Jumper; for jumper slot; 9-way; insulated; blue

[Item No.: 859-409](#)

Jumper; for jumper slot; 9-way; insulated; light gray

[Item No.: 859-409/000-005](#)

Jumper; for jumper slot; 9-way; insulated; red

[Item No.: 859-409/000-029](#)

Jumper; for jumper slot; 9-way; insulated; yellow

### 1.1.4 Marking

#### 1.1.4.1 Double marker carrier

[Item No.: 209-128](#)

Adaptor; gray

#### 1.1.4.2 Group marker carrier

[Item No.: 249-105](#)

Group marker carrier; gray

#### 1.1.4.3 Marker

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

Marker; white

[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

[Item No.: 793-502](#)

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

[Item No.: 793-566](#)

WMB marking card; as card; MARKED; 1 ... 50 (2x); 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.: 793-506](#)

WMB marking card; as card; MARKED; 41 ... 50 (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



#### 1.1.4.4 Marking devices

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

Fiber-tip pen

## 1.1.4.5 Marking strip



**Item No.: 2009-110**

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

## 1.1.4.6 Protective marker cover



**Item No.: 209-184**

Protection cover; transparent

## 1.1.5 Tool

### 1.1.5.1 Operating tool

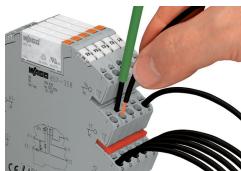


**Item No.: 210-720**

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

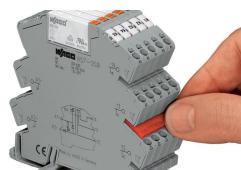
## Installation Notes

### Conductor termination



Conductor termination

### Commoning



Easy commoning using adjacent jumpers

### Marking



Marking via WMB Multi Marking System.

## Installation



Removing a relay via ejector.