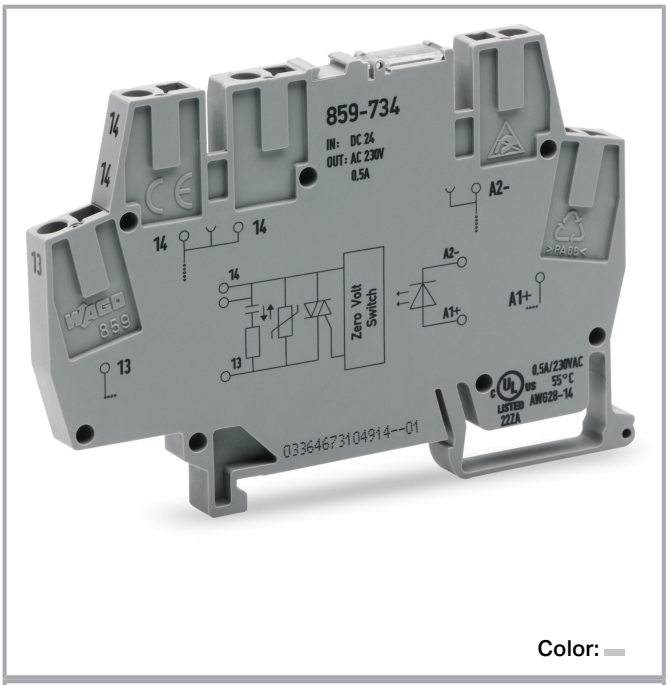
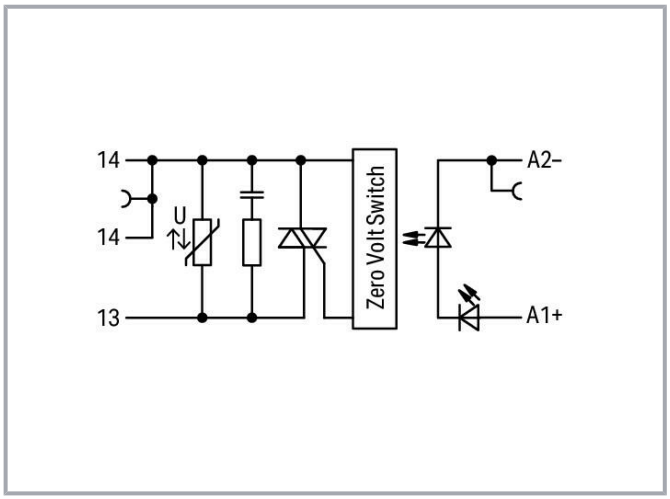
**Data sheet | Item number: 859-734**

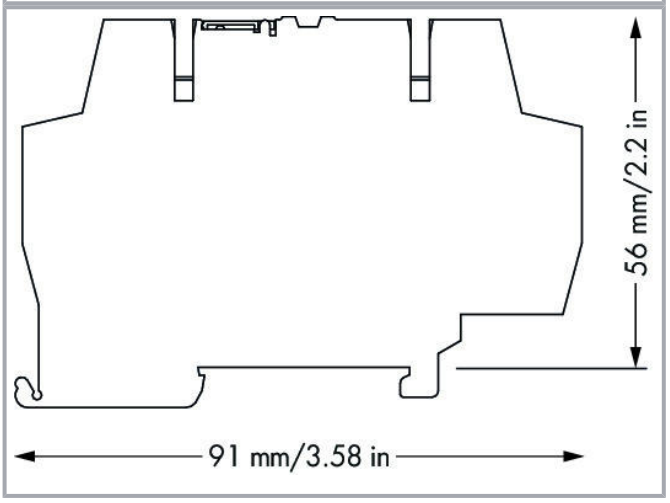
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 24 … 260 VAC; Limiting continuous current: 0.5 A; 2-wire connection; zero-cross switching; Red status indicator; Module width: 6 mm; light gray

www.wago.com/859-734




Color:




## Data

## Notes

Note

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Optocouplers and solid state relays are designed for use in signal processing networks, which are not supplied by the low-voltage power supply networks.

## Technical data

### Control circuit

| | |
|---|---|
| Nominal input voltage $U_N$ | DC 24 V |
| Input voltage range (low level) | DC 0 … 5 V |
| Input voltage range (high level) | DC 19 … 28.8 V |
| Nominal input current at $U_N$ | 6 mA |

### Load circuit

| | |
|---|---|
| Circuit type | 2-wire connection<br>Zero-voltage switching |
| Limiting continuous current | 0.5 A |
| Peak output current | 30 A |
| Output voltage range | AC 24 … 260 V (50 … 60 Hz) |
| Voltage drop at output (max.) | ≤ AC 1.2 V |
| Leakage current at rated voltage | ≤ 1 mA |
| Switching current (min.) | 10 mA |
| Turn-on time | ≤ 10 ms |
| Turn-off time | ≤ 10 ms |
| Switching frequency | 50 Hz / 60 Hz |

### Signaling

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

### Safety and protection

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

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| | |
|---|---|
| Insulation type (control/load circuit) | Reinforced insulation (safe isolation) |
| Insulation type (between adjacent devices of the the same type) | Reinforced insulation (safe isolation) |

## Connection data

| | |
|---|---|
| Connection technology | CAGE CLAMP® |
| Solid conductor | 0.08 … 2.5 mm² / 28 … 14 AWG |
| Fine-stranded conductor | 0.08 … 2.5 mm² / 28 … 14 AWG |
| Strip length | 5 … 6 mm / 0.2 … 0.24 inch |

## Physical data

| | |
|---|---|
| Width | 6 mm / 0.236 inch |
| Height | 91 mm / 3.583 inch |
| Depth from upper edge of DIN-rail | 56 mm / 2.205 inch |

## Mechanical data

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

## Material data

| | |
|---|---|
| Color | light gray |
| Fire load | 0.313 MJ |
| Weight | 20.2 g |

## Environmental requirements

| | |
|---|---|
| Surrounding air temperature (operation at $U_N$) | -25 … 55 °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 61000-6-2<br>EN 61000-6-3<br>UL 508 |

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## Commercial data

| | |
|---|---|
| Product Group | 6 (Interface Electronics) |
| PU (SPU) | 1 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4055144130027 |
| Customs tariff number | 85365005000 |

## Approvals / Certificates

### UL-Approvals

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

## Optional accessories

### Ferrule

Ferrule

| | | |
|---|---|---|
| | **Item no.: 216-223**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-223 |
| | **Item no.: 216-222**<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-222 |
| | **Item no.: 216-221**<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-221 |
| | **Item no.: 216-224**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-224 |
| | **Item no.: 216-321**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-321 |
| | **Item no.: 216-322**<br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-322 |

### Jumpers

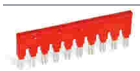
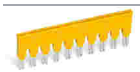
Jumper

| | | |
|---|---|---|
| | **Item no.: 859-408**<br>Jumper; for jumper slot; 8-way; insulated; light gray | www.wago.com/859-408 |

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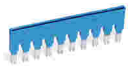
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| | | |
|---|---|---|
|  | **Item no.: 859-404/000-005**<br>Jumper; for jumper slot; 4-way; insulated; red | www.wago.com/859-404/000-005 |
|  | **Item no.: 859-404/000-006**<br>Jumper; for jumper slot; 4-way; insulated; blue | www.wago.com/859-404/000-006 |
|  | **Item no.: 859-405/000-005**<br>Jumper; for jumper slot; 5-way; insulated; red | www.wago.com/859-405/000-005 |
|  | **Item no.: 859-405/000-029**<br>Jumper; for jumper slot; 5-way; insulated; yellow | www.wago.com/859-405/000-029 |
|  | **Item no.: 859-405**<br>Jumper; for jumper slot; 5-way; insulated; light gray | www.wago.com/859-405 |
|  | **Item no.: 859-404/000-029**<br>Jumper; for jumper slot; 4-way; insulated; yellow | www.wago.com/859-404/000-029 |
|  | **Item no.: 859-406**<br>Jumper; for jumper slot; 6-way; insulated; light gray | www.wago.com/859-406 |
|  | **Item no.: 859-405/000-006**<br>Jumper; for jumper slot; 5-way; insulated; blue | www.wago.com/859-405/000-006 |
|  | **Item no.: 859-406/000-005**<br>Jumper; for jumper slot; 6-way; insulated; red | www.wago.com/859-406/000-005 |
|  | **Item no.: 859-409/000-029**<br>Jumper; for jumper slot; 9-way; insulated; yellow | www.wago.com/859-409/000-029 |
|  | **Item no.: 859-410/000-005**<br>Jumper; for jumper slot; 10-way; insulated; red | www.wago.com/859-410/000-005 |
|  | **Item no.: 859-410/000-029**<br>Jumper; for jumper slot; 10-way; insulated; yellow | www.wago.com/859-410/000-029 |
|  | **Item no.: 859-410**<br>Jumper; for jumper slot; 10-way; insulated; light gray | www.wago.com/859-410 |

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

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

Item no.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow
www.wago.com/859-403/000-029

Item no.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue
www.wago.com/859-403/000-006

Item no.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red
www.wago.com/859-408/000-005

Item no.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow
www.wago.com/859-408/000-029

Item no.: 859-409
Jumper; for jumper slot; 9-way; insulated; light gray
www.wago.com/859-409

Item no.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue
www.wago.com/859-408/000-006

Item no.: 859-403
Jumper; for jumper slot; 3-way; insulated; light gray
www.wago.com/859-403

Item no.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red
www.wago.com/859-409/000-005



Item no.: 859-404
Jumper; for jumper slot; 4-way; insulated; light gray
www.wago.com/859-404

Item no.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue
www.wago.com/859-409/000-006

Item no.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue
www.wago.com/859-402/000-006

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| | | |
|---|---|---|
|  | **Item no.: 859-402**<br>Jumper; for jumper slot; 2-way; insulated; light gray | www.wago.com/859-402 |
|  | **Item no.: 859-402/000-005**<br>Jumper; for jumper slot; 2-way; insulated; red | www.wago.com/859-402/000-005 |
|  | **Item no.: 859-406/000-006**<br>Jumper; for jumper slot; 6-way; insulated; blue | www.wago.com/859-406/000-006 |
|  | **Item no.: 859-406/000-029**<br>Jumper; for jumper slot; 6-way; insulated; signal yellow | www.wago.com/859-406/000-029 |
|  | **Item no.: 859-407/000-006**<br>Jumper; for jumper slot; 7-way; insulated; blue | www.wago.com/859-407/000-006 |
|  | **Item no.: 859-407/000-005**<br>Jumper; for jumper slot; 7-way; insulated; red | www.wago.com/859-407/000-005 |
|  | **Item no.: 859-407/000-029**<br>Jumper; for jumper slot; 7-way; insulated; yellow | www.wago.com/859-407/000-029 |
|  | **Item no.: 859-407**<br>Jumper; for jumper slot; 7-way; insulated; light gray | www.wago.com/859-407 |

**End plate**

End plate

| | | |
|---|---|---|
|  | **Item no.: 859-525**<br>End and intermediate plate; 1 mm thick; gray | www.wago.com/859-525 |

**Marking accessories**

Marking device

| | | |
|---|---|---|
|  | **Item no.: 210-110**<br>Fiber-tip pen | www.wago.com/210-110 |

Marker

| | | |
|---|---|---|
|  | **Item no.: 2009-145**<br>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 |
|  | **Item no.: 248-501**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/248-501 |
|  | **Item no.: 248-504**<br>Mini-WSB marking card; as card; MARKED; 21 … 30 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/248-504 |

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| | | |
|---|---|---|
|  | **Item no.: 248-503**<br>Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/248-503 |
|  | **Item no.: 248-506**<br>Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/248-506 |
|  | **Item no.: 248-502**<br>Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white | www.wago.com/248-502 |

**Testing and measuring**

Testing accessories

| | | |
|---|---|---|
|  | **Item no.: 859-500**<br>Test pin; 1 mm Ø; with solder connection for test wire | www.wago.com/859-500 |

**Tool**

Operating tool

| | | |
|---|---|---|
|  | **Item no.: 210-720**<br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | www.wago.com/210-720 |

## Downloads

### Documentation

**Bid Text**

| | | | |
|---|---|---|---|
| 859-734<br>X81 - Datei | 2019. 2. 19. | xml<br>3.9 kB | Download |
| 859-734<br>docx - Datei | 2019. 2. 20. | docx<br>15.8 kB | Download |

**Instruction Leaflet**

| | | | |
|---|---|---|---|
| Relay modules, Optocoupler modules | V 1.2.0<br>2019. 8. 30. | pdf<br>2.2 MB | Download |

**Additional Information**

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

## CAD/CAE-Data

**CAD data**

| | | |
|---|---|---|
| 2D/3D Models 859-734 | URL | Download |

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### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 859-734 | URL | Download |
| WSCAD Universe 859-734 | URL | Download |
| ZUKEN Portal 859-734 | URL | Download |

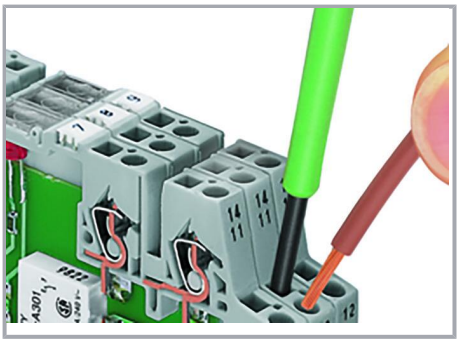
## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 859-734<br>Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 24 … 260 VAC; Limiting continuous current: 0.5 A; 2-wire connection; zero-cross switching; Red status indicator; Module width: 6 mm; light gray | URL | Download |

## Installation Notes

### Conductor termination

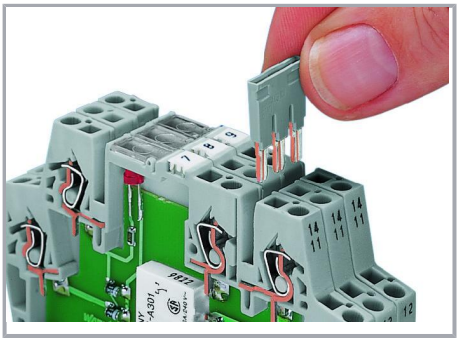


Conductor termination

### Commoning



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Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System



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