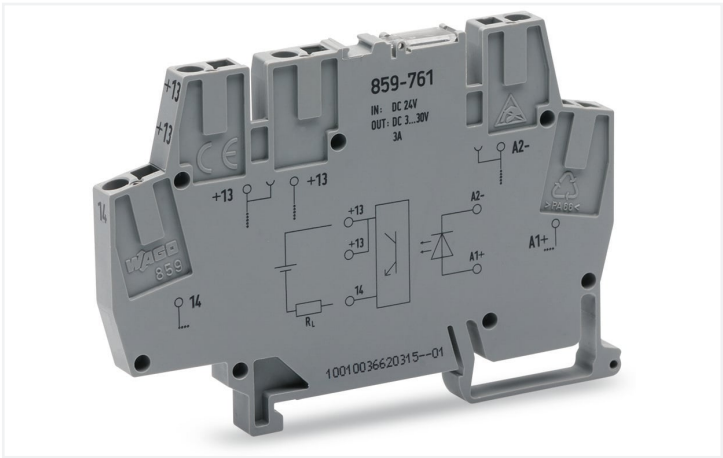


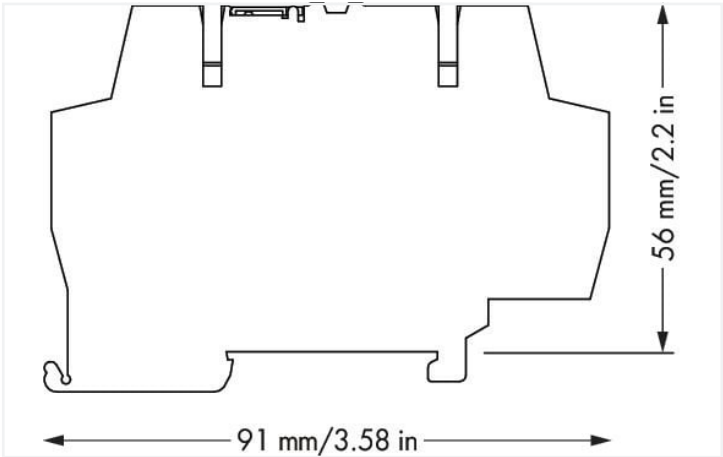
Data Sheet | Item Number: 859-761

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 3 ... 30 VDC; Limiting continuous current: 3 A; 2-wire connection; Red status indicator; Module width: 6 mm; gray

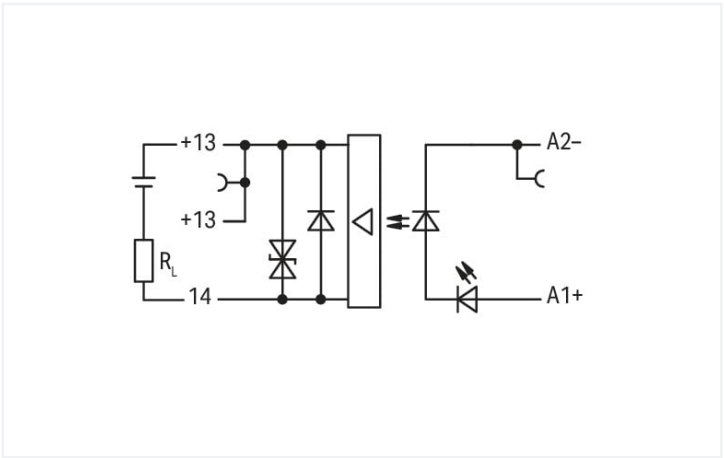
<https://www.wago.com/859-761>



Color: ■ gray



Dimensions in mm



| Notes |                                                                                                                                                          |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note  | 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                  |                | Load circuit                |                    |
| Nominal input voltage $U_N$      | DC 24 V        | Circuit type                | 2-wire connection  |
| Input voltage range (low level)  | DC 0 ... 5 V   | Limiting continuous current | 3 A                |
| Input voltage range (high level) | DC 15 ... 27 V | Peak output current         | 25 A               |
| Nominal input current at $U_N$   | 14 mA          | Nominal output voltage      | DC 24 V            |
|                                  |                | Output voltage range        | DC 3 ... 30 V      |
|                                  |                | Voltage drop                | $\leq 0.2$ VDC     |
|                                  |                | Turn-on time                | $\leq 25$ $\mu$ s  |
|                                  |                | Turn-off time               | $\leq 450$ $\mu$ s |
|                                  |                | Switching frequency         | $\leq 350$ Hz      |

### Signaling

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

### Safety and protection

|                                                             |                                                          |
|-------------------------------------------------------------|----------------------------------------------------------|
| Rated voltage                                               | 300 V                                                    |
| Overvoltage category                                        | II                                                       |
| Pollution degree                                            | 2                                                        |
| Dielectric strength (control/load circuit) (AC, 1 min)      | 2.5 kVrms                                                |
| Insulation type (control/load circuit)                      | Basic insulation                                         |
| Insulation type (between adjacent devices of the same type) | Reinforced insulation (safe isolation)                   |
| Insulation type (to adjacent devices of different types)    | Basic insulation                                         |
| Protection type                                             | IP20; in connected state or when using 859-525 end plate |

### Connection data

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| Connection technology                           | CAGE CLAMP®                                  |
| Solid conductor                                 | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor                         | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG |
| Strip length                                    | 5 ... 6 mm / 0.2 ... 0.24 inches             |

### Physical data

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

### Mechanical data

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

### Material data

|           |          |
|-----------|----------|
| Color     | gray     |
| Fire load | 0.338 MJ |
| Weight    | 18.6 g   |

### Environmental requirements

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Ambient temperature (operation at U <sub>N</sub> ) | -25 ... +55 °C                           |
| Ambient temperature (storage)                      | -40 ... +70 °C                           |
| Processing temperature                             | -25 ... +50 °C                           |
| Temperature range of connection cable              | ≥ (T <sub>ambient</sub> + 20 K)          |
| 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>EN 61373 |

| 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                 |
| PU (SPU)              | 1 pcs                    |
| Packaging type        | Box                      |
| Country of origin     | DE                       |
| GTIN                  | 4055143606158            |
| Customs tariff number | 85365005000              |

| Environmental Product Compliance          |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| CAS-No.                                   | 7439-92-1<br>79-94-7                                     |
| REACH Candidate List Substance            | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol<br>Lead |
| RoHS Compliance Status                    | Compliant,With Exemption                                 |
| RoHS Exemption                            | 7(a)<br>7(c)-I                                           |
| SCIP notification number (Austria)        | fad9ea75-ce74-4ed6-b6c4-9c54a02ec8ea                     |
| SCIP notification number (Belgium)        | 88048a1c-f216-485d-9b1e-fefac84e95d                      |
| SCIP notification number (Bulgaria)       | 66c67c7a-31e2-4f49-9150-3c449658a61f                     |
| SCIP notification number (Czech Republic) | f04a1ec9-7bb2-4c29-9bcb-b74949a510f7                     |
| SCIP notification number (Denmark)        | 4011c88f-e99d-427b-9e4a-a13a400a953f                     |
| SCIP notification number (Finland)        | a1a0e0fb-703e-4bf6-b384-5ed82486124f                     |
| SCIP notification number (France)         | b064116a-8a1c-4859-835d-154fc913783f                     |
| SCIP notification number (Germany)        | 705cdf49-d6e4-4a8a-8083-000bb5f9e004                     |
| SCIP notification number (Hungary)        | 80540ddc-2e11-40bb-9f99-c135d0481c6e                     |
| SCIP notification number (Italy)          | 0925e94d-ef61-4a5b-b354-9112816124a5                     |
| SCIP notification number (Netherlands)    | 519d73f0-52ef-4528-86bf-94bbb6037f1e                     |
| SCIP notification number (Poland)         | 1d78bb5c-9a62-4277-a39a-1f0aed2c8a8c                     |
| SCIP notification number (Romania)        | 9131eb84-8570-4dcb-a543-809d3348a5ff                     |
| SCIP notification number (Sweden)         | c871fd06-d542-4a1a-a5cb-c97f8803eca6                     |

Approvals / Certificates

General approvals



| Approval                                    | Standard       | Certificate Name                            |
|---------------------------------------------|----------------|---------------------------------------------|
| EAC<br>Brjansker Zertifizierungs-<br>stelle | TP TC 020/2011 | EAC_Certificate_RU_C-<br>DE.AM02.B.00115_19 |



Downloads

Environmental Product Compliance

Compliance Search

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Instruction Leaflet

Relay modules, Opto-coupler modules

V 2.0.0

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1 Compatible Products

1.1 Optional Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 859-525

End and intermediate plate; 1 mm thick; gray

1.1.1.2 Intermediate plate

Item No.: 859-525

End and intermediate plate; 1 mm thick; gray



| 1.1.2 Ferrule                                                                                            |                                                                                                                   |                                                                                                        |                                                                                                        |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1.1.2.1 Ferrule                                                                                          |                                                                                                                   |                                                                                                        |                                                                                                        |
|                         |                                  |                       |                     |
| <b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow | <b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise | <b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white | <b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray |
|                         |                                  |                                                                                                        |                                                                                                        |
| <b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red       | <b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black            |                                                                                                        |                                                                                                        |
| 1.1.3 Jumper                                                                                             |                                                                                                                   |                                                                                                        |                                                                                                        |
| 1.1.3.1 Jumper                                                                                           |                                                                                                                   |                                                                                                        |                                                                                                        |
|                         |                                  |                      |                     |
| <b>Item No.: 859-410/000-006</b><br>Jumper; for jumper slot; 10-way; insulated; blue                     | <b>Item No.: 859-410</b><br>Jumper; for jumper slot; 10-way; insulated; light gray                                | <b>Item No.: 859-410/000-005</b><br>Jumper; for jumper slot; 10-way; insulated; red                    | <b>Item No.: 859-410/000-029</b><br>Jumper; for jumper slot; 10-way; insulated; yellow                 |
|                         |                                  |                       |                     |
| <b>Item No.: 859-402/000-006</b><br>Jumper; for jumper slot; 2-way; insulated; blue                      | <b>Item No.: 859-402</b><br>Jumper; for jumper slot; 2-way; insulated; light gray                                 | <b>Item No.: 859-402/000-005</b><br>Jumper; for jumper slot; 2-way; insulated; red                     | <b>Item No.: 859-402/000-029</b><br>Jumper; for jumper slot; 2-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-403/000-006</b><br>Jumper; for jumper slot; 3-way; insulated; blue                      | <b>Item No.: 859-403</b><br>Jumper; for jumper slot; 3-way; insulated; light gray                                 | <b>Item No.: 859-403/000-005</b><br>Jumper; for jumper slot; 3-way; insulated; red                     | <b>Item No.: 859-403/000-029</b><br>Jumper; for jumper slot; 3-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-404/000-006</b><br>Jumper; for jumper slot; 4-way; insulated; blue                      | <b>Item No.: 859-404</b><br>Jumper; for jumper slot; 4-way; insulated; light gray                                 | <b>Item No.: 859-404/000-005</b><br>Jumper; for jumper slot; 4-way; insulated; red                     | <b>Item No.: 859-404/000-029</b><br>Jumper; for jumper slot; 4-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-405/000-006</b><br>Jumper; for jumper slot; 5-way; insulated; blue                      | <b>Item No.: 859-405</b><br>Jumper; for jumper slot; 5-way; insulated; light gray                                 | <b>Item No.: 859-405/000-005</b><br>Jumper; for jumper slot; 5-way; insulated; red                     | <b>Item No.: 859-405/000-029</b><br>Jumper; for jumper slot; 5-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-406/000-006</b><br>Jumper; for jumper slot; 6-way; insulated; blue                      | <b>Item No.: 859-406</b><br>Jumper; for jumper slot; 6-way; insulated; light gray                                 | <b>Item No.: 859-406/000-005</b><br>Jumper; for jumper slot; 6-way; insulated; red                     | <b>Item No.: 859-406/000-029</b><br>Jumper; for jumper slot; 6-way; insulated; signal yellow           |
|                       |                                |                     |                   |
| <b>Item No.: 859-407/000-006</b><br>Jumper; for jumper slot; 7-way; insulated; blue                      | <b>Item No.: 859-407</b><br>Jumper; for jumper slot; 7-way; insulated; light gray                                 | <b>Item No.: 859-407/000-005</b><br>Jumper; for jumper slot; 7-way; insulated; red                     | <b>Item No.: 859-407/000-029</b><br>Jumper; for jumper slot; 7-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-408/000-006</b><br>Jumper; for jumper slot; 8-way; insulated; blue                      | <b>Item No.: 859-408</b><br>Jumper; for jumper slot; 8-way; insulated; light gray                                 | <b>Item No.: 859-408/000-005</b><br>Jumper; for jumper slot; 8-way; insulated; red                     | <b>Item No.: 859-408/000-029</b><br>Jumper; for jumper slot; 8-way; insulated; yellow                  |
|                       |                                |                     |                   |
| <b>Item No.: 859-409/000-006</b><br>Jumper; for jumper slot; 9-way; insulated; blue                      | <b>Item No.: 859-409</b><br>Jumper; for jumper slot; 9-way; insulated; light gray                                 | <b>Item No.: 859-409/000-005</b><br>Jumper; for jumper slot; 9-way; insulated; red                     | <b>Item No.: 859-409/000-029</b><br>Jumper; for jumper slot; 9-way; insulated; yellow                  |



1.1.4 Marking

1.1.4.1 Marker



**Item No.: 2009-145**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 248-502**  
Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 248-503**  
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 248-504**  
Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



**Item No.: 248-506**  
Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

1.1.4.2 Marking device



**Item No.: 210-110**  
Fiber-tip pen

1.1.5 Test and measurement

1.1.5.1 Testing accessories



**Item No.: 859-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.6 Tool

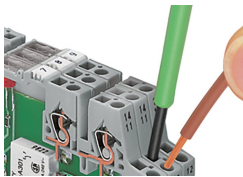
1.1.6.1 Operating tool



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

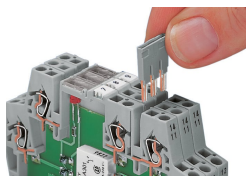
Installation Notes

Conductor termination



Conductor termination

## Commoning



Easy commoning using adjacent jumpers

## Marking



Marking via Mini-WSB Quick Marking System