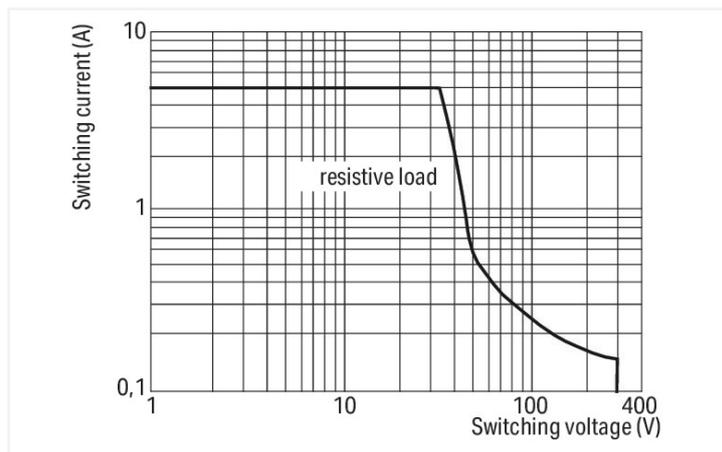
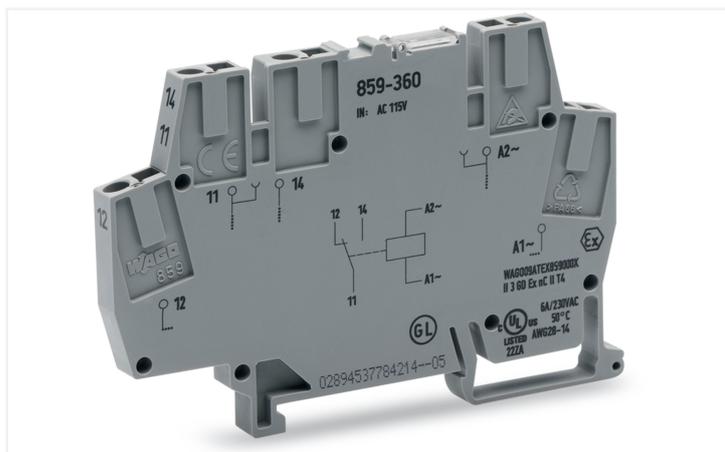


Data Sheet | Item Number: 859-359

Relay module; Nominal input voltage: 230 VAC; 1 changeover contact; with gold contacts; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

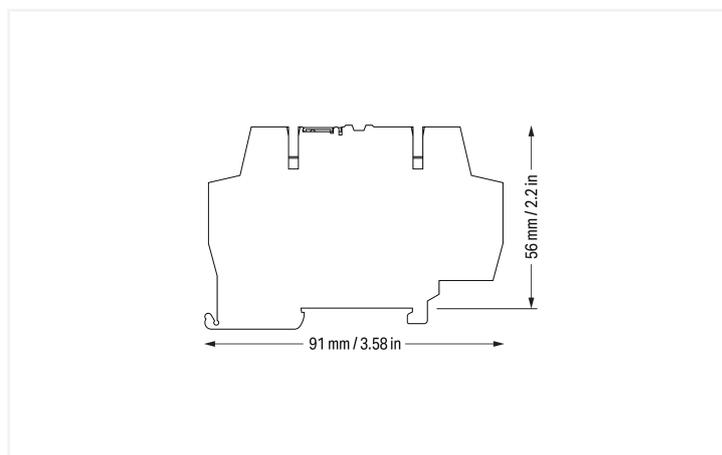
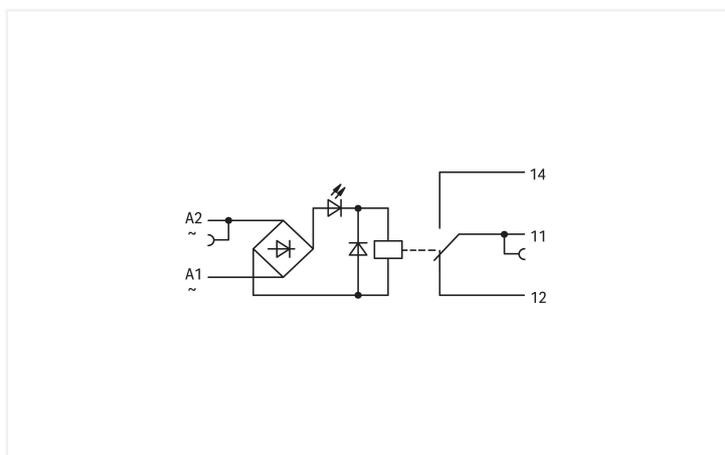
<https://www.wago.com/859-359>



Color: ■ gray

Similar to illustration

DC load limit curve



Notes

Note

To prevent damaging the gold layer, 30 V switching voltages and 50 mA currents must not be exceeded. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life.
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_N | 230 VAC/VDC |
| Input voltage range | -15 ... +10 % |
| Nominal input current at U_N | 4 mA |

Load circuit

| | |
|--|---|
| Number of changeover/switchover contacts | 1 |
| Contact material (relay) | AgNi + Au |
| Limiting continuous current | 5 A |
| Inrush current (resistive) max. | (AC) 20 A / 0.02 s |
| Switching Voltage, Max. | 250 VAC |
| Switching power (resistive) max. | AC 1250 VA; DC (see load limit curve) |
| Switching capacity | AC-15: 3 A / 250 VAC; DC-13: 2 A / 24 VDC |

Load circuit

| | |
|--|---|
| Recommended minimum load | 1 V / 1 mA / 1 mW |
| Pull-in time (typ.) | 15 ms |
| Drop-out time (typ.) | 30 ms |
| Bounce time (typ.) | 3.5 ms |
| Electrical life (NO; resistive load; 23 °C) | 50 x 10 ³ switching operations |
| Mechanical life | 5 x 10 ⁶ switching operations |
| Switching frequency with/without load (max.) | 6 min ⁻¹ / 180 min ⁻¹ |

Signaling

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

Safety and protection

| | |
|--|--|
| Rated Voltage | 300 V |
| Rated impulse withstand voltage | 4 kV |
| Overvoltage category | III |
| Pollution degree | 2 |
| Dielectric strength (control/load circuit) (AC, 1 min) | 4 kVrms |
| Dielectric strength (open contact) (AC, 1 min) | 1 kVrms |
| Insulation type (control/load circuit) | Reinforced insulation (safe isolation) |
| Insulation type (adjacent devices) | Reinforced insulation (safe isolation) |
| 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 ² / 28 ... 14 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.08 ... 1.5 mm ² / 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

| | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Insulation material (main housing) | Polyamide (PA66) |
| Material group | I |
| Flammability class per UL94 | V0 |
| Fire load | 0.313 MJ |
| Weight | 24.4 g |

Environmental requirements

| | |
|---|--|
| Ambient temperature (operation at U_N) | -40 ... +50 °C |
| Ambient temperature (storage) | -40 ... +70 °C |
| Processing temperature | -25 ... +50 °C |
| Temperature range of connection cable | $\geq (T_{\text{ambient}} + 20 \text{ K})$ |
| Relative humidity | 5 ... 95 % (no condensation permissible) |
| Operating altitude (max.) | 2000 m |

Standards and Specifications

| | |
|--------------------------|---|
| Standards/specifications | EN 61010-2-201 EN 61810-1 EN 61373 UL 508 DNV |
|--------------------------|---|

Commercial data

| | |
|-----------------------|--------------------------|
| Product Group | 6 (INTERFACE ELECTRONIC) |
| PU (SPU) | 10 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143604185 |
| 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 10.0 | EC001437 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

| | |
|---|--|
| CAS-No. | 7439-92-1 79-94-7 |
| REACH Candidate List Substance | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 7(a) 7(c)-I |
| SCIP notification number (Austria) | ab4629ce-767c-4422-8c06-4edcd73583b6 |
| SCIP notification number (Belgium) | f8d33013-be66-46d9-9221-0e68f1dc0af2 |
| SCIP notification number (Bulgaria) | 88481cdf-2361-44c1-bd53-bf24d7048273 |
| SCIP notification number (Czech Republic) | 2aea490b-e627-43c2-8ee7-deddf7c978f |
| SCIP notification number (Denmark) | b16b0d91-3992-494e-b4d9-8fcc7f334372 |
| SCIP notification number (Finland) | 932c199e-f6bc-4f80-9a64-a2bfb85584a6 |
| SCIP notification number (France) | f9bac3ea-6b79-48fa-915f-a0d452195a55 |
| SCIP notification number (Germany) | 5333537f-9814-4dd9-b713-b75238dff223 |
| SCIP notification number (Hungary) | 3fc75f48-d383-4efb-9137-3558a6927a60 |
| SCIP notification number (Italy) | 4fb2dc5d-c219-46c6-9128-b8951f759fff |
| SCIP notification number (Netherlands) | 71bb665f-4100-4094-a6ba-fd8e5804dbc7 |
| SCIP notification number (Poland) | bc683ce0-a9a0-46c6-909a-78075c152950 |
| SCIP notification number (Romania) | 0498f7e5-7fbb-47ca-8d18-eeb6cd896dc0 |
| SCIP notification number (Sweden) | 9e145ccc-bdba-43d8-a0a1-d6392c74be0d |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---|----------------|------------------|
| EAC GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03078 |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.4 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications



| Approval | Standard | Certificate Name |
|-------------------------|------------------------|------------------|
| DNV DNV Germany GmbH | DNV-CG-0339, Aug. 2021 | TAA00001D1 |

Approvals for hazardous areas



| Approval | Standard | Certificate Name |
|----------------------------|-------------|---------------------------------------|
| CCC CNEX | CNCA-C23-01 | 2021312304000982 (Ex ec nC IIC T4 Gc) |
| UKEx WAGO GmbH & Co. KG | EN 60079-0 | UKCA_WA-GO22UKEX007X_ec nC |

Downloads

Environmental Product Compliance

| Compliance Search |
|--|
| Environmental Product Compliance 859-359 ↓ |

Documentation

| Bid Text | | | |
|----------|------------|------------------|-------------------|
| 859-359 | 19.02.2019 | xml 4.93 KB | ↓ |
| 859-359 | 20.02.2019 | docx 17.07 KB | ↓ |

| Instruction Leaflet | | | |
|-------------------------------------|-----------------------|-------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf 132.68 KB | ↓ |
| Relay modules, Opto-coupler modules | V 2.0.0 19.01.2022 | pdf 2066.27 KB | ↓ |

CAD/CAE-Data

| CAD data |
|--|
| 2D/3D Models 859-359 ↓ |

| CAE data |
|---|
| EPLAN Data Portal 859-359 ↓ |
| WSCAD Universe 859-359 ↓ |
| ZUKEN Portal 859-359 ↓ |

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



Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-221

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

1.1.3 Jumper

1.1.3.1 Jumper



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; 10-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; 2-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; 3-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; 4-way; insulated; yellow

1.1.3.1 Jumper



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; 5-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; 6-way; insulated; 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; 7-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

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 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

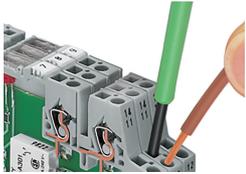


Item No.: 210-720

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

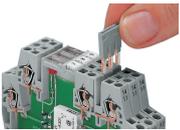
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System