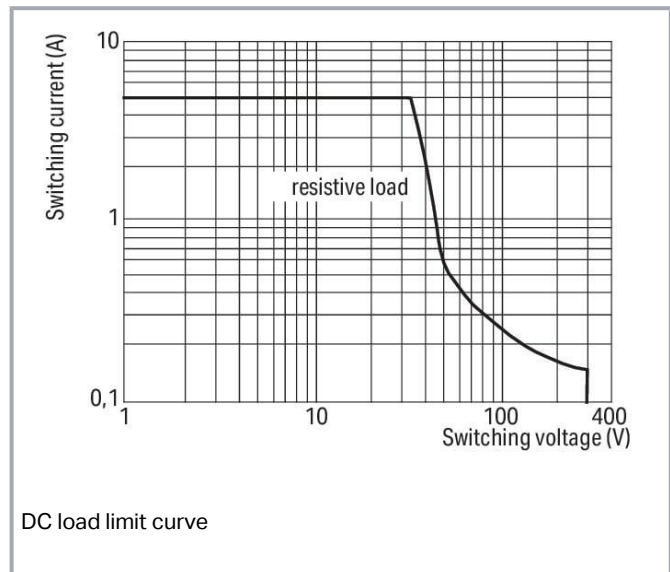
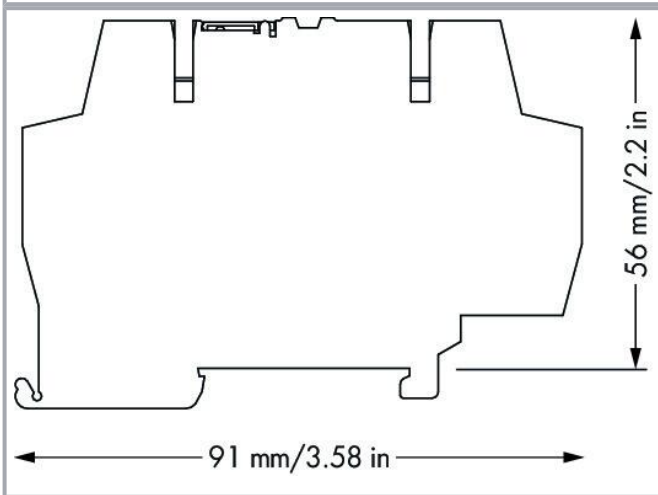
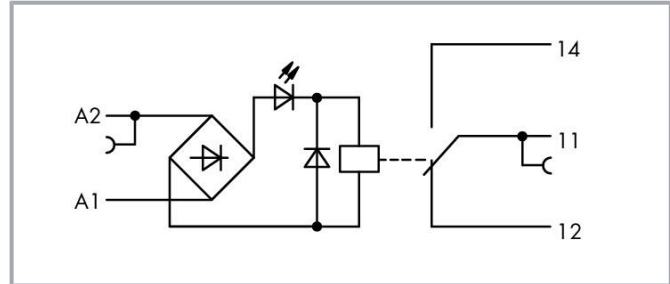
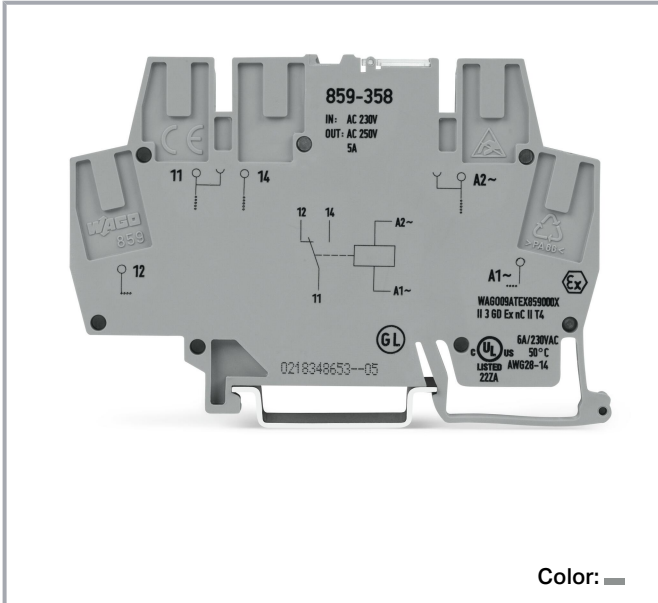


Data sheet | Item number: 859-358

Relay module; Nominal input voltage: 230 V AC/DC; 1 changeover contact;
Red status indicator; Module width: 6 mm; 2,50 mm²; gray



www.wago.com/859-358



Data Notes

Note

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

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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 | AC/DC 230 V |
| Input voltage range | -15 ... +10 % |
| Nominal input current at U_N | 4 mA |

Load circuit

| | |
|--|---|
| Number of changeover/switchover contacts | 1 |
| Contact material (relay) | AgSnO ₂ |
| Limiting continuous current | 5 A |
| Inrush current (resistive) max. | (AC) 20 A / 0.02 s |
| Switching voltage (max.) | AC 250 V |
| Switching power (resistive) max. | AC 1250 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 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 surge voltage | 4 kV |
| Overvoltage category | III |

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



| | |
|--|--|
| 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

| | |
|-----------|----------|
| Color | gray |
| Fire load | 0.338 MJ |
| Weight | 22.9 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 | ≥ (T _{ambient} + 20 K) |
| Relative humidity | 5 ... 95 % (no condensation permissible) |
| Operating altitude (max.) | 2000 m |

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Standards and specifications

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

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) | 10 pcs |
| Packaging type | box |
| Country of origin | CN |
| GTIN | 4055143604161 |
| Customs tariff number | 85364900990 |

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 7(c)-II |
| SCIP notification number (Austria) | 13f417b3-0350-4125-92d8-47f96bd30ac1 |
| SCIP notification number (Belgium) | 51550585-44d4-4be4-a3f4-37be51a18d9c |
| SCIP notification number (Bulgaria) | defc57c1-fa9f-4ef2-8b1e-dac512ed0739 |
| SCIP notification number (Czech Republic) | e9844ef6-1d0b-4260-aaaf-943299c9255c |
| SCIP notification number (Denmark) | 398e9ff9-9052-4283-b02d-7f845d88a2d4 |
| SCIP notification number (Finland) | 0d4388fc-1e38-4ab1-b0a2-bbe5ec32f608 |
| SCIP notification number (France) | f87784ab-2e70-4e72-b82a-45f45d2c1ca7 |
| SCIP notification number (Germany) | b3467cdf-97aa-4c7b-8da1-9b50aff7c476 |
| SCIP notification number (Hungary) | f74899d9-fe2b-49b1-b327-2b506a0de174 |
| SCIP notification number (Italy) | a584b99e-870d-43c2-bcaf-c29c6b35f4c6 |

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| | |
|--|--------------------------------------|
| SCIP notification number (Netherlands) | 66693007-fe32-4d11-b093-65eaf901be77 |
| SCIP notification number (Poland) | 4b57b95e-8570-4e64-a07e-bbc2d72f1bdd |
| SCIP notification number (Romania) | 1ffb1fe6-db73-416e-8572-6003a9ab3b57 |
| SCIP notification number (Sweden) | 77ac6166-cab7-4907-aa26-87c06b12a88f |

Approvals / Certificates


General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|-------------|--------------------------|--|
|  | CCC CNEX | CNCA-C23-01 | 2021312304000982 (Ex ec nC IIC T4 Gc) |


Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|---|--|--------------------------|------------------|
|  | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
|  | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|---|-------------------------------|--------------------------|-----------------------|
|  | DNV DNV Germany GmbH | DNV-CG-0339, Aug. 2021 | TAA00001D1 |
|  | PRS Polski Rejestr Statków | - | TE/2186 /880590/18 |

Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | Certificate name |
|--|-------------|--------------------------|--|
|  | CCC CNEX | CNCA-C23-01 | 2021312304000982 (Ex ec nC IIC T4 Gc) |

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

DEKRA 8505



UKEx
WAGO GmbH & Co. KG

EN 60079-0

UKCA_WAGO22UKEX007X_ec
nC

Optional accessories

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

Marking accessories

Marking devices

**Item no.: 210-110**

Fiber-tip pen

www.wago.com/210-110

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

www.wago.com/2009-145**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/248-501**Item no.: 248-504**

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/248-504**Item no.: 248-503**

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**

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**

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**WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²www.wago.com/859-500

End plate

Intermediate plate

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









Item no.: 859-525
End and intermediate plate; 1 mm thick; gray

www.wago.com/859-525

Ferrule

Ferrule

| | | |
|---|---|--|
|  | Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-223 |
|  | Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-222 |
|  | Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-221 |
|  | Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-224 |
|  | Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-321 |
|  | Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; light turquoise | www.wago.com/216-322 |

Jumpers

Jumper

| | | |
|--|---|--|
|  | Item no.: 859-408 Jumper; for jumper slot; 8-way; insulated; light gray | www.wago.com/859-408 |
|  | Item no.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red | www.wago.com/859-404/000-005 |
|  | Item no.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue | www.wago.com/859-404/000-006 |
|  | Item no.: 859-405/000-005 Jumper; for jumper slot; 5-way; insulated; red | www.wago.com/859-405/000-005 |
|  | Item no.: 859-405/000-029 Jumper; for jumper slot; 5-way; insulated; yellow | 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 |

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



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

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



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

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



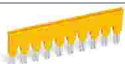
Item no.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

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



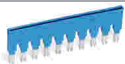
Item no.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow

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



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

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

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

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



Item no.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow

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

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|-------------|-----------------|----------|
| 859-358 docx - Datei | 2019 Feb 20 | docx 17.3 kB | Download |
|-------------------------|-------------|-----------------|----------|

| | | | |
|------------------------|-------------|---------------|----------|
| 859-358 X81 - Datei | 2019 Feb 19 | xml 4.6 kB | Download |
|------------------------|-------------|---------------|----------|

Instruction Leaflet

| | | | |
|--|-------------|-----------------|----------|
| CCC Ex (Additional information) 859-*** | 2023 Apr 26 | pdf 135.9 kB | Download |
|--|-------------|-----------------|----------|

| | | | |
|------------------------------------|------------------------|---------------|----------|
| Relay modules, Optocoupler modules | V 2.0.0 2022 Jan 19 | pdf 2.1 MB | Download |
|------------------------------------|------------------------|---------------|----------|

Additional Information

| | | | |
|---|------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 Aug 18 | pdf 2.2 MB | Download |
|---|------------------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 859-358 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 859-358 | URL | Download |
|---------------------------|-----|----------|

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 859-358 | URL | Download |
|----------------------|-----|----------|

| | | |
|------------------------|-----|----------|
| WSCAD Universe 859-358 | URL | Download |
|------------------------|-----|----------|

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

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-358

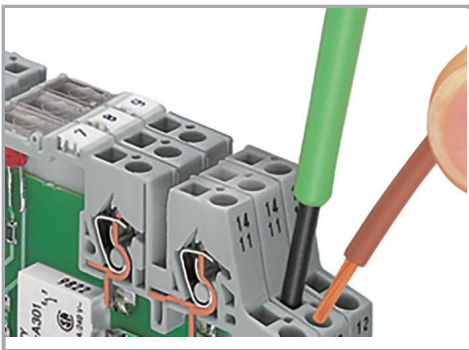
URL

Download

Relay module; Nominal input voltage: 230 V AC/DC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

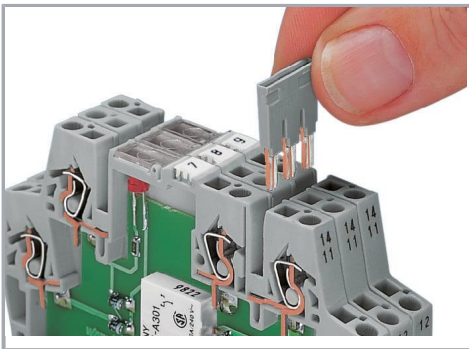
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking

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



Marking via Mini-WSB Quick Marking System

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