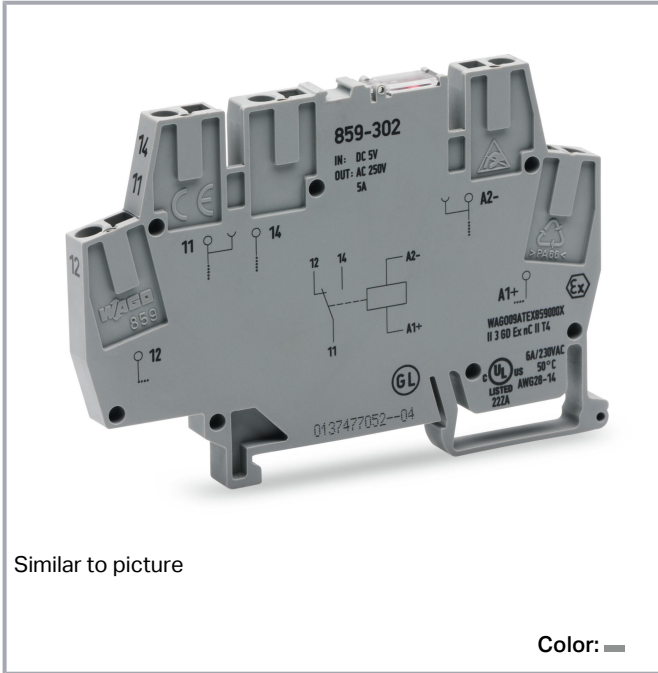


Data sheet | Item number: 859-302

Relay module; Nominal input voltage: 5 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

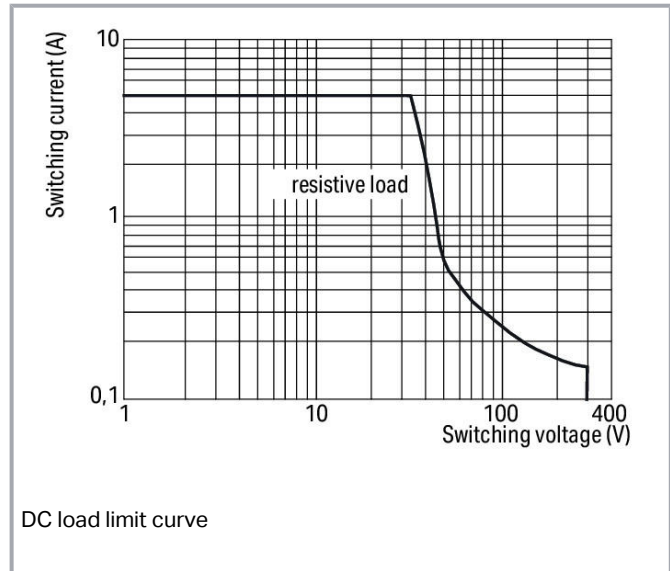
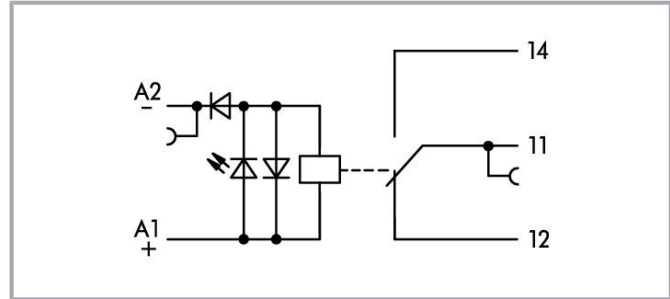
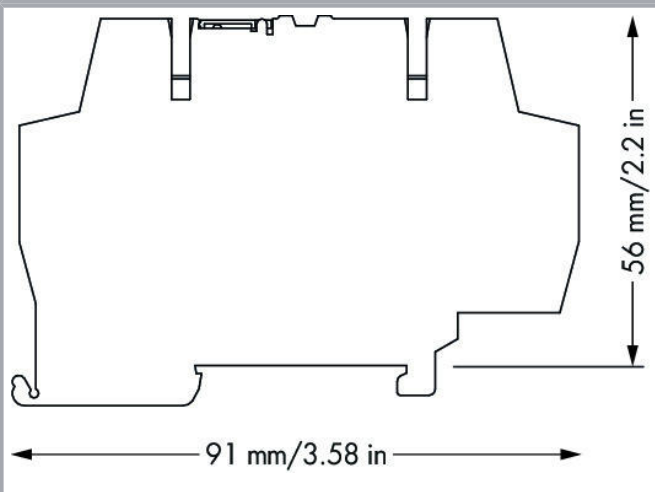


www.wago.com/859-302



Similar to picture

Color:



DC load limit curve

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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

**Data****Notes**

| | |
|------|---|
| Note | 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 | DC 5 V |
| Input voltage range | -15 ... +20 % |
| Nominal input current at U_N | 31 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) |
| 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 |
|------------------|---------|

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

Safety and protection

| | |
|---|---------|
| Rated voltage | 250 V |
| Rated surge voltage | 4 kV |
| Pollution degree | 2 |
| Dielectric strength, control/load circuit (AC, 1 min) | 4 kVrms |
| Dielectric strength, open contact (AC, 1 min) | 1 kVrms |

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 |
| 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 | gray |
| Fire load | 0.313 MJ |
| Weight | 22 g |

Environmental requirements

| | |
|---|--|
| Surrounding air temperature (operation at U_N) | -40 ... 50 °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 |

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

Standards and specifications


| | |
|--------------------------|--|
| Standards/Specifications | EN 61010-2-201 EN 61810-1 EN 61373 GL UL 508 |
|--------------------------|--|

Commercial data



| | |
|-----------------------|---------------------------|
| Product Group | 6 (Interface Electronics) |
| PU (SPU) | 10 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4055143602587 |
| Customs tariff number | 85364900990 |

Approvals / Certificates

Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|--------------------|--------------------------|------------------|
|  Ex nA nC IIC T4 Gc | CCCEX CQST/CNEx | CNCA-C23-01 | 2021312304000982 |

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|-----------------------|
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAA00001D1 |
|  | NK Nippon Kaiji Kyokai | - | TA17255M |
|  | PRS Polski Rejestr Statków | - | TE/2186 /880590/18 |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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



UL
UL International Netherlands B.V. (ORDINARY
LOCATIONS)

UL 508

E175199
Sec.4


Optional accessories


Marking accessories


Marking device


| | | |
|--|---|--|
|  | 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 |
|--|--|--|

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 |
|--|---|--|

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



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



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



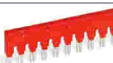
Item no.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red

www.wago.com/859-406/000-005



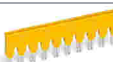
Item no.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

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



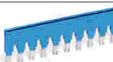
Item no.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow

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




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

| | | |
|---|---|--|
|  | 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 |
|  | 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 |







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

| | | |
|--|--|--|
|  | 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 |
|  | 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 |

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 |

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; green | www.wago.com/216-322 |

Testing and measuring

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

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

End plate

End plate



Item no.: 859-525

End and intermediate plate; 1 mm thick; gray

www.wago.com/859-525**Downloads****Documentation****Bid Text**

| | | | |
|------------------------|--------------|---------------|----------|
| 859-302 X81 - Datei | 2019. 2. 19. | xml 4.6 kB | Download |
|------------------------|--------------|---------------|----------|

| | | | |
|-------------------------|--------------|-----------------|----------|
| 859-302 docx - Datei | 2019. 2. 20. | docx 17.1 kB | Download |
|-------------------------|--------------|-----------------|----------|

Instruction Leaflet

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

Additional Information

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

CAD/CAE-Data**CAE data**

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 859-302 | URL | Download |
|---------------------------|-----|----------|

| | | |
|------------------------|-----|----------|
| WSCAD Universe 859-302 | URL | Download |
|------------------------|-----|----------|

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 859-302 | URL | Download |
|----------------------|-----|----------|

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 859-302 | URL | Download |
|----------------------|-----|----------|

Environmental Product Compliance**Compliance Search**

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

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Environmental Product Compliance 859-302

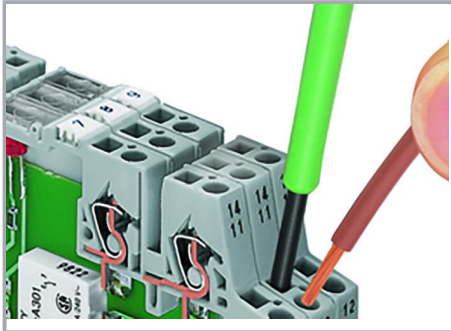
Relay module; Nominal input voltage: 5 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

[URL](#)

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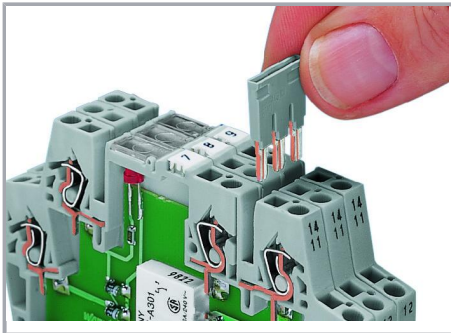
Installation Notes

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!