

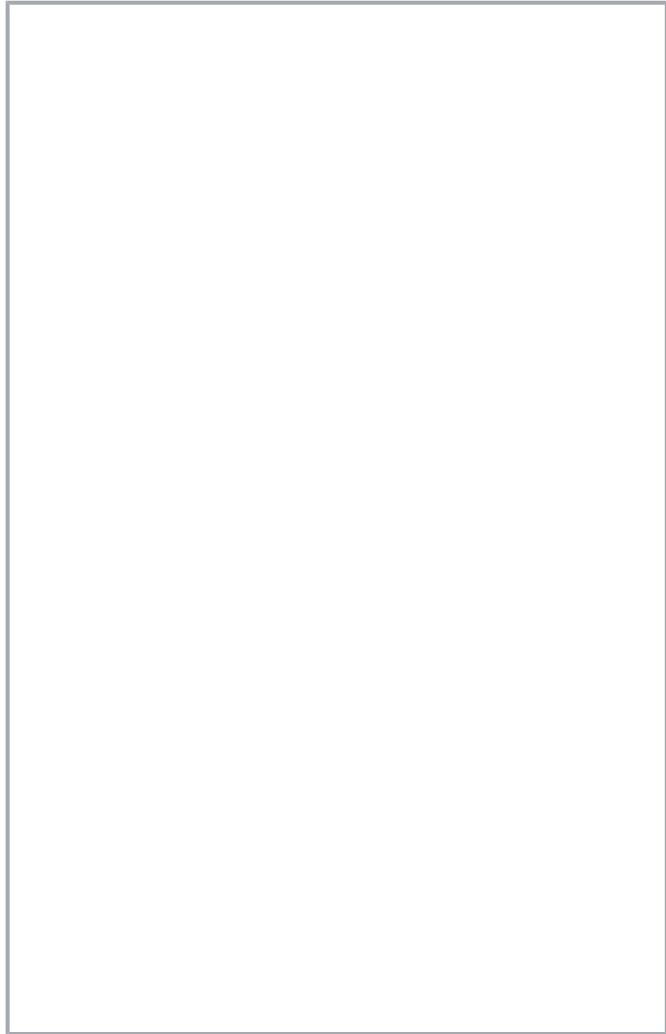
Data sheet | Item number: 859-752

Optocoupler module; Nominal input voltage: 5 VDC; Output voltage range: 0 ... 24 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; Module width: 6 mm; gray

www.wago.com/859-752



Color:



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

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Phone: +49571 887-0 | Fax: +49571 887-169
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We are always happy to take your call at +49 (571) 887-44222.



Data

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

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Control Circuit

| | |
|----------------------------------|--------------|
| Nominal input voltage U_N | DC 5 V |
| Input voltage range (low level) | DC 0 ... 1 V |
| Input voltage range (high level) | DC 4 ... 6 V |
| Nominal input current at U_N | 10 mA |

Load circuit

| | |
|---|--|
| Circuit type | 3-wire connection High-side switching |
| Limiting continuous current | 0.5 A |
| Nominal output voltage | DC 24 V |
| Output voltage range | DC 20 ... 30 V |
| Voltage drop at output (max.) | \leq DC 1.2 V |
| Voltage drop | \leq 1.2 VDC |
| Output closed-circuit current (without load) max. | 12.5 mA |
| Turn-on time | \leq 15 μ s |
| Turn-off time | \leq 30 μ s |
| Switching frequency | \leq 10 kHz |

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 (adjacent devices) | Reinforced insulation (safe isolation) |
| 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 |

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



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 | 17.8 g |

Environmental requirements

| | |
|---|--|
| Ambient temperature (operation at U _N) | -25 ... +40 °C |
| Ambient temperature UL (operation at U _N) | -25 ... +40 °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 |

Standards and specifications

| | |
|--------------------------|--|
| Standards/specifications | EN 61010-2-201 EN 61000-6-2 EN 61000-6-3 |
|--------------------------|--|

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



EN 61373
UL 508

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 | 4066966423396 |
| Customs tariff number | 85365005000 |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1303-86-2 1317-36-8 7439-92-1 79-94-7 |
| REACH Candidate List Substance | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide |
| RoHS Compliance Status | Compliant, With Exemption |
| RoHS Exemption | 7(a) 7(c)-I |
| SCIP notification number (Austria) | 2bf9fbd1-547e-4bfa-b2bc-fc91d82df661 |
| SCIP notification number (Belgium) | 538d034d-166a-4299-b6a5-17ba08b2fb47 |
| SCIP notification number (Bulgaria) | 645430d7-0a2f-4db0-b318-5f11e63d82d6 |
| SCIP notification number (Czech Republic) | 6a24d77b-4a7d-463b-8fff-c86154baccb9 |
| SCIP notification number (Denmark) | 2b7657ec-b737-4d10-810c-a285e16ab903 |
| SCIP notification number (Finland) | cdeedaed-ee95-4e88-8119-bba25fcbe2fe |
| SCIP notification number (France) | 6d5faefc-deaa-4931-abab-3f716a0f092d |
| SCIP notification number (Germany) | 00dddd8a-167f-45dd-9fea-9e56e2bfc636 |
| SCIP notification number (Hungary) | 49b38b2b-11e8-40fe-a870-ae0a759fb093 |
| SCIP notification number (Italy) | 1232e944-7809-4747-be2b-f209da19e025 |
| SCIP notification number (Netherlands) | 20d89d09-2f67-4d2e-b68d-dafb7d3b1d0d |
| SCIP notification number (Poland) | 04c81bcc-a9ad-4703-966c-ffd0872b1552 |

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SCIP notification number (Romania)

425aa0ae-a278-4f91-b9d5-6871dd2daa5e

SCIP notification number (Sweden)

5cbf11d6-a042-4433-a820-a2725c6a1b8f

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|---|
| | EAC Brjansker Zertifizierungsstelle | TP TC 020/2011 | EAC_Certificate_RU_C-DE.AM02.B.00115_19 |
| | UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.4 |

Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|---------------------------------------|
| | CCC CNEX | CNCA-C23-01 | 2021312304000982 (Ex ec IIC T4 Gc) |
| | UKEx WAGO GmbH & Co. KG | EN 60079-0 | WAGO22UKEX007X_ec |
| | UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | ANSI/ISA 12.12.01 | E198726 |

Optional accessories

Jumpers

| Jumper | | |
|--------|---|--|
| | 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 |

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

www.wago.com/859-404/000-029

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

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

www.wago.com/859-408/000-029

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

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

Jumper; for jumper slot; 7-way; insulated; light gray

www.wago.com/859-407

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

End plate

Intermediate plate

Item no.: 859-525

End and intermediate plate; 1 mm thick; gray

www.wago.com/859-525

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

Testing and measuring

Testing accessories

Item no.: 859-500WAGO 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

Ferrule

Ferrule

Item no.: 216-223Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; redwww.wago.com/216-223**Item no.: 216-222**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; graywww.wago.com/216-222

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**Item no.: 216-221**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; whitewww.wago.com/216-221**Item no.: 216-224**Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; blackwww.wago.com/216-224**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellowwww.wago.com/216-321**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoisewww.wago.com/216-322**Downloads****Documentation****Bid Text**

| | | | |
|-------------------------|--------------|-----------------|----------|
| 859-752 docx - Datei | 2019 年2月20 日 | docx 15.8 kB | Download |
| 859-752 X81 - Datei | 2019 年2月19 日 | xml 3.9 kB | Download |

Instruction Leaflet

| | | | |
|--|-------------------------|-----------------|----------|
| CCC Ex (Additional information) 859-*** | 2023 年4月26 日 | pdf 135.9 kB | Download |
| Relay modules, Optocoupler modules | V 2.0.0 2022 年1月19 日 | pdf 2.1 MB | Download |

Additional Information

| | | | |
|---|-------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18 日 | pdf 2.2 MB | Download |
|---|-------------------------|---------------|----------|

CAD/CAE-Data**CAE data**

| | | | |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 859-752 | | URL | Download |
| WSCAD Universe 859-752 | | URL | Download |
| ZUKEN Portal 859-752 | | URL | Download |

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CAD data

2D/3D Models 859-752

[URL](#)

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-752

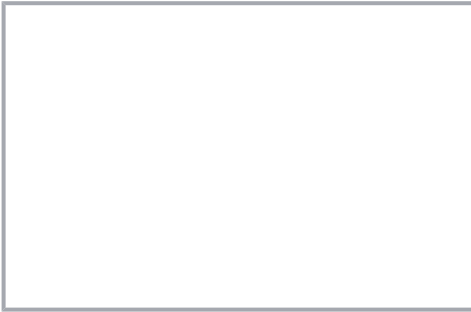
[URL](#)

[Download](#)

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Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking

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Data sheet | Item number: 859-752

www.wago.com/859-752



Marking via Mini-WSB Quick Marking System

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