

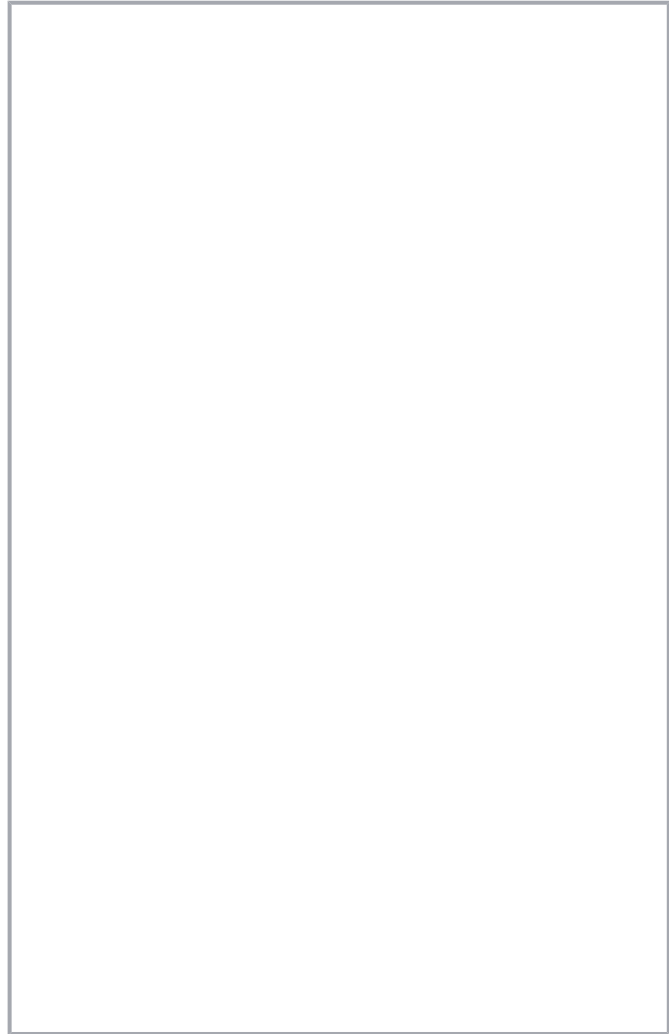
Data sheet | Item number: 859-730

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

www.wago.com/859-730



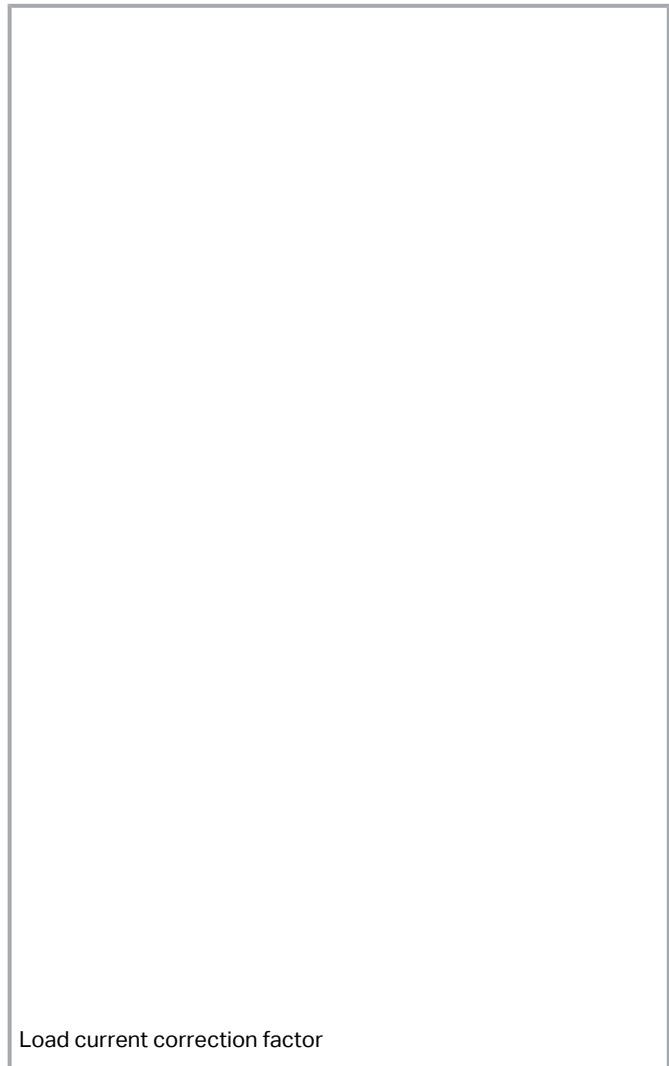
Color:



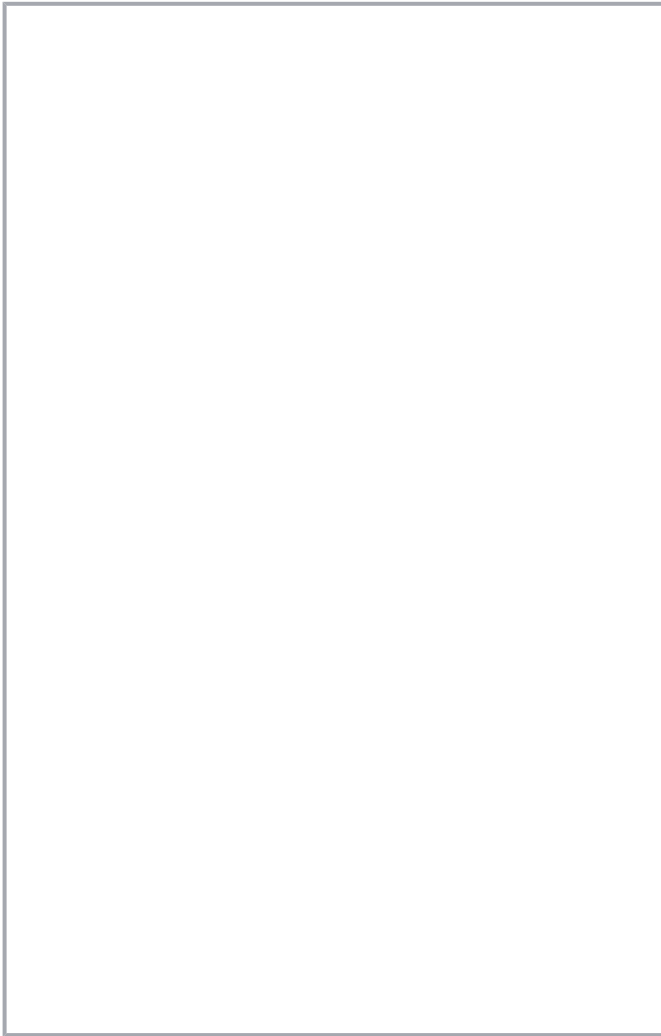
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Data

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 24 V |
| Input voltage range (low level) | DC 0 ... 7.5 V |
| Input voltage range (high level) | DC 12.5 ... 30 V |
| Nominal input current at U_N | 15 mA |

Load circuit

| | |
|----------------------------------|-------------------|
| Circuit type | 2-wire connection |
| Limiting continuous current | 4.8 A |
| Peak output current | 25 A |
| Nominal output voltage | DC 24 V |
| Output voltage range | DC 3 ... 30 V |
| Voltage drop at output (max.) | \leq DC 0.4 V |
| Voltage drop | \leq 0.4 VDC |
| Leakage current at rated voltage | \leq 45 μ A |
| Turn-on time | \leq 20 μ s |
| Turn-off time | \leq 1 ms |
| Rise time (t_{10-90}) | 12 μ s |
| Drop-out time (t_{90-10}) | 15 μ s |
| Switching frequency | \leq 2.3 kHz |

Signaling

| | |
|------------------|------------|
| Status indicator | Yellow 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 |

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



Connection data

| | |
|---|--|
| Connection technology | CAGE CLAMP® |
| Solid conductor | 0.2 ... 2.5 mm ² / 24 ... 14 AWG |
| Fine-stranded conductor | 0.2 ... 2.5 mm ² / 24 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.08 ... 1.5 mm ² / 28 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.2 ... 1.5 mm ² / 24 ... 14 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 | 18.5 g |

Environmental requirements

| | |
|---|--|
| Ambient temperature (operation at U _N) | -40 ... +70 °C |
| Ambient temperature UL (operation at U _N) | -40 ... +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 |
|--------------------------|--------------------------------|

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

EN 61000-6-3
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 |
| Recupel Type | |
| PU (SPU) | 10 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4055143604987 |
| Customs tariff number | 85365005000 |

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) | 6556ad7b-5a4b-4263-9337-83906050ae4b |
| SCIP notification number (Belgium) | e660b4a5-a966-4c82-9feb-1b133db827e4 |
| SCIP notification number (Bulgaria) | e4cf23dc-19f9-4ecc-9569-934b08d84818 |
| SCIP notification number (Czech Republic) | 83c7edbd-635b-4061-81af-325616a91c6a |
| SCIP notification number (Denmark) | 72941adf-b006-4c18-8519-1483302531e1 |
| SCIP notification number (Finland) | 7dc2413a-6773-4d8b-b5c9-8709a114d7e0 |
| SCIP notification number (France) | 76724e1c-686b-460e-bbf0-7d3cbb08eccd4 |
| SCIP notification number (Germany) | 9f4d9de4-780e-4359-8665-9cdd5198d414 |
| SCIP notification number (Hungary) | 61ec0ba0-0ed8-43fb-b3b6-6dc51b9f3b3b |
| SCIP notification number (Italy) | 93c82f6e-f5f4-4662-a911-3807be285765 |
| SCIP notification number (Netherlands) | 06241b6c-7650-4848-b248-6c55f36e2645 |
| SCIP notification number (Poland) | bcffc90f-ec1b-40ab-930c-8c6634d1e259 |
| SCIP notification number (Romania) | e521904f-d719-43f4-80bc-4c2fee4e67d9 |
| SCIP notification number (Sweden) | ae12280c-c32a-470f-9d04-fa5d360e9bf5 |

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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 |

Declarations of conformity and manufacturer's declarations

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

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

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 |

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 |

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.: 859-405/000-006

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

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

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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

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

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**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**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**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**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

www.wago.com/248-503

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

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type; white

Item no.: 248-506Mini-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.: 859-500WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm² www.wago.com/859-500**End plate**

Intermediate plate

Item no.: 859-525End and intermediate plate; 1 mm thick; gray www.wago.com/859-525**Downloads****Documentation****Bid Text**

| | | | |
|-------------------------|--------------|-----------------|----------|
| 859-730 docx - Datei | 2019 年2月20 日 | docx 15.7 kB | Download |
| 859-730 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**

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|---------------------------|---------------------|--------------------------|
| WSCAD Universe 859-730 | URL | Download |
| ZUKEN Portal 859-730 | URL | Download |
| EPLAN Data Portal 859-730 | URL | Download |
| CAD data | | |
| 2D/3D Models 859-730 | URL | Download |

Environmental Product Compliance

Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 859-730 | URL | Download |
| Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 3 ... 30 VDC; Limiting continuous current: 3 A; 2-wire connection; Module width: 6 mm; gray | | |

Installation Notes

Conductor termination



Conductor termination

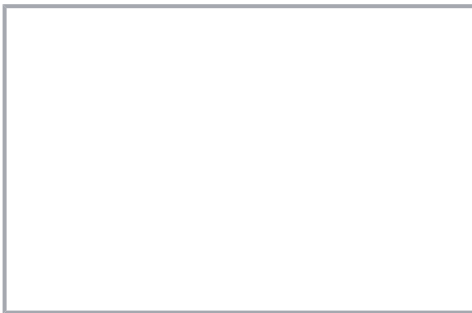
Commoning

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



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System

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