

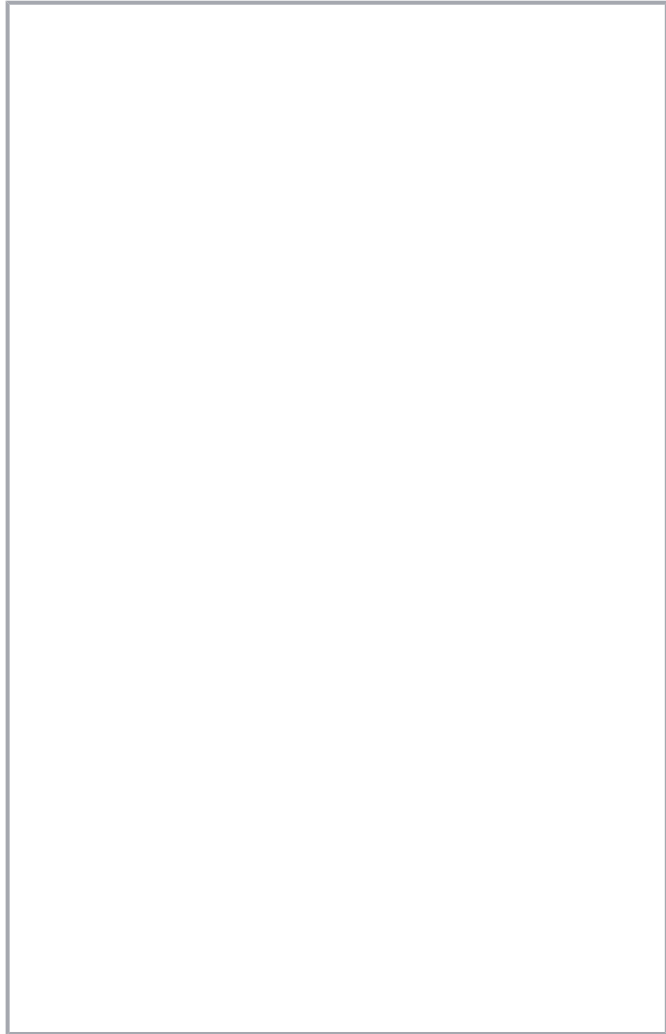
**Data sheet | Item number: 859-756**

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 4 ... 6 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; Module width: 6 mm; gray

[www.wago.com/859-756](http://www.wago.com/859-756)



Color:



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

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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.

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## Technical data

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## Control Circuit

Nominal input voltage $U_N$	DC 24 V
Input voltage range (low level)	DC 0 ... 5 V
Input voltage range (high level)	DC 18 ... 30 V
Nominal input current at $U_N$	11 mA

## Load circuit

Circuit type	3-wire connection High-side switching
Limiting continuous current	0.5 A
Nominal output voltage	DC 5 V
Output voltage range	DC 4 ... 6.25 V
Voltage drop at output (max.)	$\leq$ DC 1.2 V
Voltage drop	$\leq$ 1.2 VDC
Leakage current at rated voltage	$\leq$ 10 $\mu$ A
Output closed-circuit current (without load) max.	4.5 mA
Turn-on time	$\leq$ 15 $\mu$ s
Turn-off time	$\leq$ 30 $\mu$ s
Switching frequency	$\leq$ 10 kHz

## Signaling

Status indicator	Red LED
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## 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

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## Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.08 ... 1.5 mm <sup>2</sup> / 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	18.7 g

## Environmental requirements

Ambient temperature (operation at U <sub>N</sub> )	-25 ... +40 °C
Ambient temperature UL (operation at U <sub>N</sub> )	-25 ... +40 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T <sub>ambient</sub> + 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
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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	4066966423440
Customs tariff number	85365005000

## Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	572f2da1-0f9b-4b4f-bc34-e7ad5ccfc750
SCIP notification number (Belgium)	ccff11c5-8e4d-4199-8b7e-f2d74107265b
SCIP notification number (Bulgaria)	b5a4cd68-4027-4ec9-a0f0-a9aef5f71fa3
SCIP notification number (Czech Republic)	809f0483-d08d-46e7-b56c-73126d2c2303
SCIP notification number (Denmark)	c28ff0d9-a509-4edf-b1e0-fcddc1605738
SCIP notification number (Finland)	1f54fb6b-cee0-4862-bef5-8333a0526169
SCIP notification number (France)	cd628484-1553-4350-82f1-1c3290c09231
SCIP notification number (Germany)	f78cef72-cb9d-4f2e-b65c-9f74fb4a0bfa
SCIP notification number (Hungary)	40f8bfd9-bcc6-457a-a88d-9963966985cc
SCIP notification number (Italy)	6c8b3563-fabb-442e-a9fe-9426edcd1727

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SCIP notification number (Netherlands)	f3f5d8f2-41d0-439c-86d6-14453c972dbc
SCIP notification number (Poland)	4213acbd-72d3-41a8-be9e-4e602bed0f3a
SCIP notification number (Romania)	ebf0b57c-0cff-4973-9d74-d91d3810ea9c
SCIP notification number (Sweden)	1b1a0a29-76d9-4e4a-ba70-4f456d564073

## Approvals / Certificates

### General approvals

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

### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCC</b> CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
	<b>UKEx</b> WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX007X_ec

## Optional accessories

### Jumpers

Jumper		
	<b>Item no.: 859-404/000-005</b> Jumper; for jumper slot; 4-way; insulated; red	<a href="http://www.wago.com/859-404/000-005">www.wago.com/859-404/000-005</a>
	<b>Item no.: 859-404/000-006</b> Jumper; for jumper slot; 4-way; insulated; blue	<a href="http://www.wago.com/859-404/000-006">www.wago.com/859-404/000-006</a>
	<b>Item no.: 859-405/000-005</b> Jumper; for jumper slot; 5-way; insulated; red	<a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a>
	<b>Item no.: 859-405/000-029</b> Jumper; for jumper slot; 5-way; insulated; yellow	<a href="http://www.wago.com/859-405/000-029">www.wago.com/859-405/000-029</a>
	<b>Item no.: 859-405</b> Jumper; for jumper slot; 5-way; insulated; light gray	<a href="http://www.wago.com/859-405">www.wago.com/859-405</a>

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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://www.wago.com/859-408/000-005)

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

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**Item no.: 859-408/000-029**

Jumper; for jumper slot; 8-way; insulated; yellow

[www.wago.com/859-408/000-029](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://www.wago.com/859-407/000-005)

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

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**Item no.: 859-407/000-029**

Jumper; for jumper slot; 7-way; insulated; yellow

[www.wago.com/859-407/000-029](http://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](http://www.wago.com/859-407)**End plate**

Intermediate plate

**Item no.: 859-525**

End and intermediate plate; 1 mm thick; gray

[www.wago.com/859-525](http://www.wago.com/859-525)**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 0,5mm<sup>2</sup>[www.wago.com/859-500](http://www.wago.com/859-500)**Marking accessories**

Marking device

**Item no.: 210-110**

Fiber-tip pen

[www.wago.com/210-110](http://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](http://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](http://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](http://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](http://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](http://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](http://www.wago.com/248-502)**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](http://www.wago.com/210-720)**Ferrule**

Ferrule

**Item no.: 216-223**

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

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Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red[www.wago.com/216-223](http://www.wago.com/216-223)**Item no.: 216-222**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray[www.wago.com/216-222](http://www.wago.com/216-222)**Item no.: 216-221**Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white[www.wago.com/216-221](http://www.wago.com/216-221)**Item no.: 216-224**Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black[www.wago.com/216-224](http://www.wago.com/216-224)**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[www.wago.com/216-321](http://www.wago.com/216-321)**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise[www.wago.com/216-322](http://www.wago.com/216-322)**Downloads****Documentation****Bid Text**

859-756 docx - Datei	2019 年2月20 日	docx 15.9 kB	Download
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859-756 X81 - Datei	2019 年2月19 日	xml 3.9 kB	Download
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**Instruction Leaflet**

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

EPLAN Data Portal 859-756		URL	Download
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Subject to changes. Please also observe the further product documentation!



WSCAD Universe 859-756

[URL](#) [Download](#)

ZUKEN Portal 859-756

[URL](#) [Download](#)

#### CAD data

2D/3D Models 859-756

[URL](#) [Download](#)

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 859-756

[URL](#) [Download](#)

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 4 ... 6 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; 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!