Data sheet | Item number: 859-756
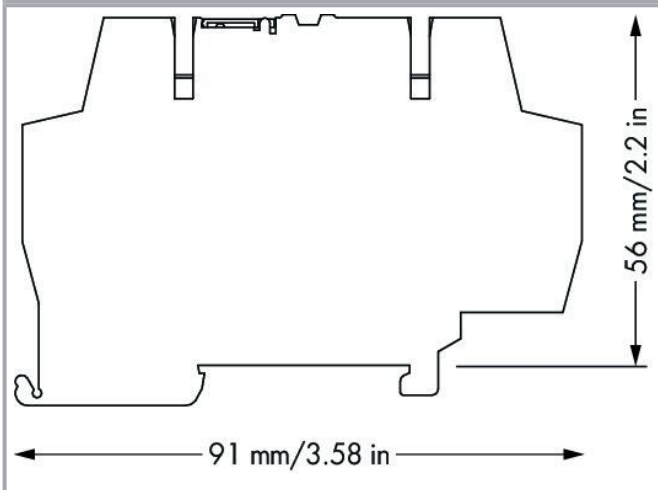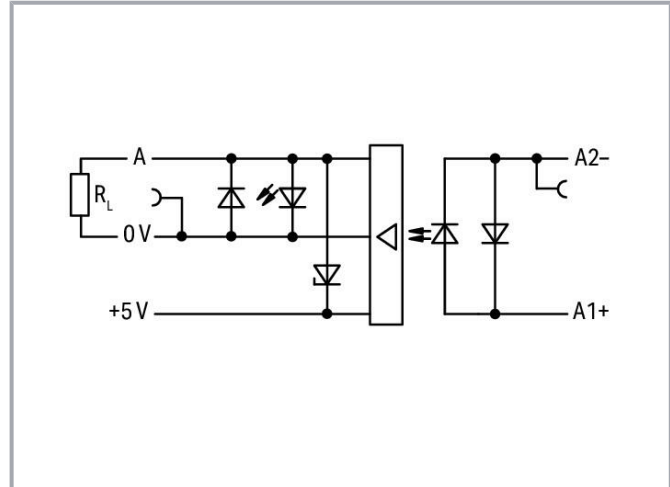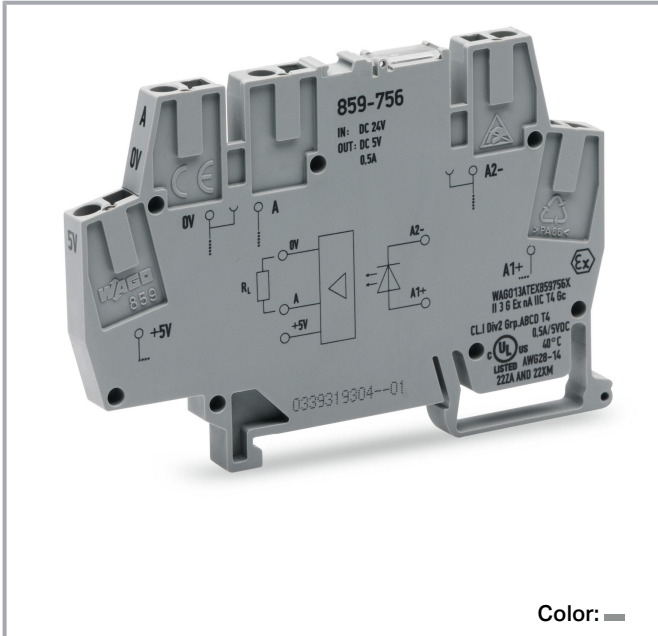
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 4 … 6 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; Module width: 6 mm; gray

www.wago.com/859-756

Color: ▬

Data
Notes

Note

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.

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

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.)	≤ DC 1.2 V
Leakage current at rated voltage	≤ 10 µA
Output closed-circuit current (without load) max.	4.5 mA
Turn-on time	≤ 15 µs
Turn-off time	≤ 30 µs
Switching frequency	≤ 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

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

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

Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor; with insulated ferrule	0.08 … 1.5 mm² / 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_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	$\geq (T_{ambient} + 20\,K)$
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 61000-6-2
	EN 61000-6-3
	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	4055143605489
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
	7(c)-II
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

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

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
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
	CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
DEKRA 8505	**UKEx** WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX007X_ec

Optional accessories

End plate

Intermediate plate

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

Ferrule

Ferrule

	Item no.: 216-223	www.wago.com/216-223

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

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item no.: 216-222
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

www.wago.com/216-222

Item no.: 216-221
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

www.wago.com/216-221

Item no.: 216-224
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

www.wago.com/216-224

Item no.: 216-321
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

www.wago.com/216-321

Item no.: 216-322
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

www.wago.com/216-322

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 0,5mm²

www.wago.com/859-500

Jumpers

Jumper

Item no.: 859-408

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

Jumper; for jumper slot; 8-way; insulated; light gray

www.wago.com/859-408

	Item no.: 859-404/000-005	www.wago.com/859-404
	Jumper; for jumper slot; 4-way; insulated; red	/000-005

	Item no.: 859-404/000-006	www.wago.com/859-404
	Jumper; for jumper slot; 4-way; insulated; blue	/000-006

	Item no.: 859-405/000-005	www.wago.com/859-405
	Jumper; for jumper slot; 5-way; insulated; red	/000-005

	Item no.: 859-405/000-029	www.wago.com/859-405
	Jumper; for jumper slot; 5-way; insulated; yellow	/000-029

	Item no.: 859-405	www.wago.com/859-405
	Jumper; for jumper slot; 5-way; insulated; light gray	

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

	Item no.: 859-406	www.wago.com/859-406
	Jumper; for jumper slot; 6-way; insulated; light gray	

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

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

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

	Item no.: 859-410/000-005	www.wago.com/859-410
	Jumper; for jumper slot; 10-way; insulated; red	/000-005

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

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

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

	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
	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

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

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

	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 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

Downloads
Documentation

Bid Text

859-756 docx - Datei	2019 Feb 20	docx 15.9 kB	Download
859-756 X81 - Datei	2019 Feb 19	xml 3.9 kB	Download

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

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

CAE data

EPLAN Data Portal 859-756	URL	Download
WSCAD Universe 859-756	URL	Download
ZUKEN Portal 859-756	URL	Download

CAD data

2D/3D Models 859-756	URL	Download

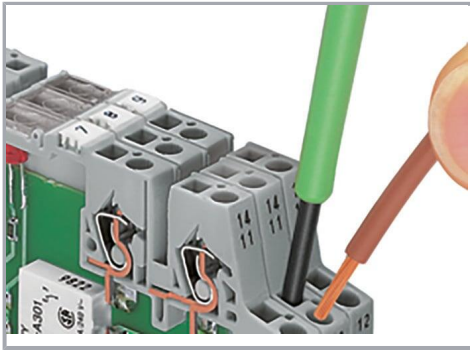## Environmental Product Compliance

Compliance Search

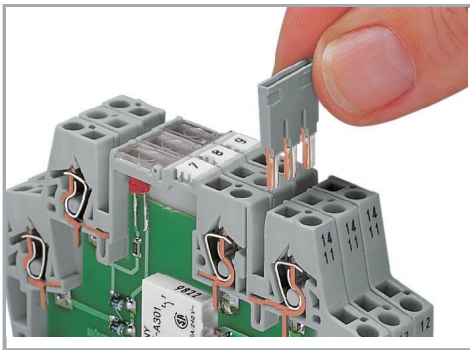|		
Environmental Product Compliance 859-756 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 4 … 6 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; Module width: 6 mm; gray	URL	Download

Installation Notes

Conductor termination

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

Conductor termination

Commoning

Easy commoning using adjacent jumpers

Marking

Marking via Mini-WSB Quick Marking System

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

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