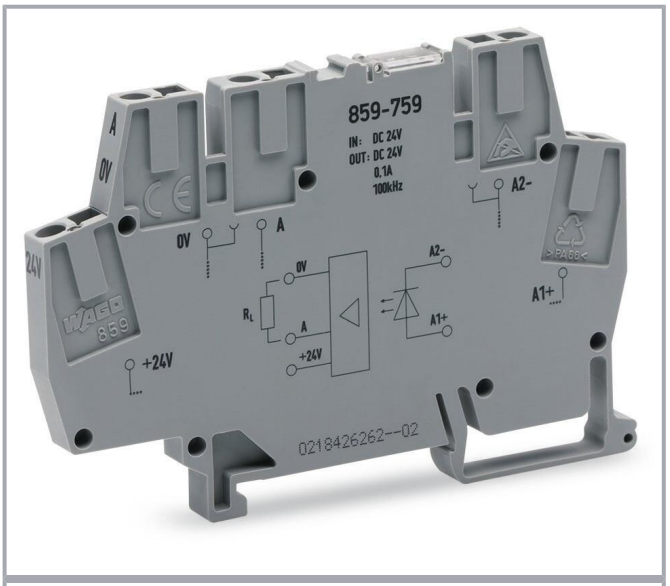
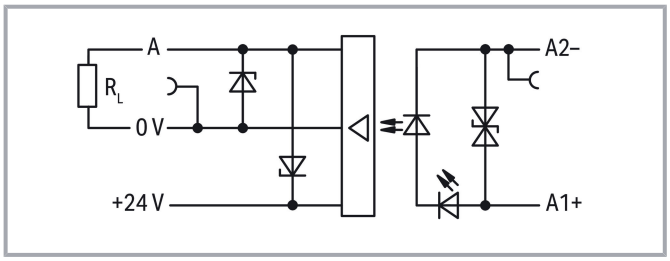
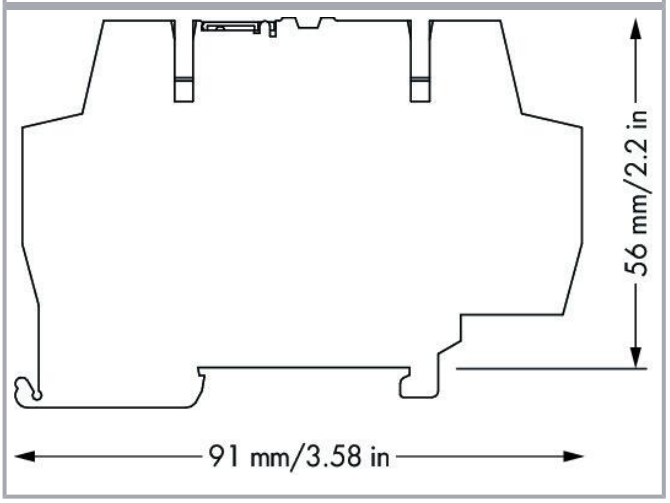
Data sheet | Item number: 859-759

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 … 28.8 VDC; Limiting continuous current: 0.1 A; 3-wire connection/high-side switching; Frequency: 100 kHz; Red status indicator; Module width: 6 mm

www.wago.com/859-759







Data

Notes

Note	Optocouplers and solid state relays are designed for use in signal processing networks that are not supplied directly by the low-voltage power supply network.

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

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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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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 20 … 30 V
Nominal input current at U_N	9 mA

Load circuit

Circuit type	3-wire connection High-side switching
Limiting continuous current	0.1 A
Peak output current	0.8 A
Nominal output voltage	DC 24 V
Output voltage range	DC 20 … 28.8 V
Voltage drop	≤ 1.2 VDC
Leakage current at rated voltage	≤ 10 µA
Output closed-circuit current (without load) max.	7 mA
Turn-on time	≤ 0.5 µs
Turn-off time	≤ 2 µs
Switching frequency	≤ 100 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

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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

Note (material data)	Information on material specifications can be found here
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.338 MJ
Weight	19.1 g

Environmental requirements

Ambient temperature (operation at U_N)	-25 … +55 °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

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Standards and specifications

Standards/specifications	EN 61010-2-201 EN 61000-6-2 EN 61000-6-3 EN 61373

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
Recupel Type	
ECCN	NO DATA
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143606141
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	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	db1b9f5f-4624-4a81-85ed-32bf4c380d1f
SCIP notification number (Belgium)	346984bf-4644-49b4-b75d-b233801a1fc7
SCIP notification number (Bulgaria)	42178e86-b7b2-47fd-9816-4af315d6c733
SCIP notification number (Czech Republic)	0618bede-05c2-49bd-8879-b779266f043a

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SCIP notification number (Denmark)	943d0638-d68e-488c-ba28-5536c083a234
SCIP notification number (Finland)	7b32c1f3-f6fd-4e6c-8e5f-cc39d706d4de
SCIP notification number (France)	eeb8e53c-6ba7-405d-9c8b-c2be4640771e
SCIP notification number (Germany)	d69a97f1-ab41-49c0-9eda-4f5c21e4f61f
SCIP notification number (Hungary)	831ad6bd-6839-477c-8a25-18684774a8dc
SCIP notification number (Italy)	4a8d1615-566f-4397-bc5a-a0b51b1eff92
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SCIP notification number (Romania)	12eb23e6-e1f3-48bc-9fc2-1aa50f4fed8b
SCIP notification number (Sweden)	991b2a84-e1cd-4a2b-9075-8d8ea51ed334

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

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

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

End plate

Intermediate plate



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

Marking accessories

Marking device

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	**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

Ferrule

Ferrule

	**Item no.: 216-223** Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	**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

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

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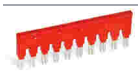
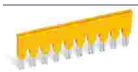
	Item no.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue	www.wago.com/859-404/000-006
	Item no.: 859-405/000-005 Jumper; for jumper slot; 5-way; insulated; red	www.wago.com/859-405/000-005
	Item no.: 859-405/000-029 Jumper; for jumper slot; 5-way; insulated; yellow	www.wago.com/859-405/000-029
	Item no.: 859-405 Jumper; for jumper slot; 5-way; insulated; light gray	www.wago.com/859-405
	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
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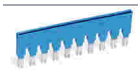	Item no.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	www.wago.com/859-410/000-006
	Item no.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	www.wago.com/859-403/000-005

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	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

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	Item no.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue	www.wago.com/859-406/000-006
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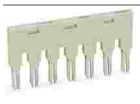	Item no.: 859-407/000-006 Jumper; for jumper slot; 7-way; insulated; blue	www.wago.com/859-407/000-006
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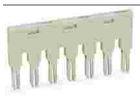
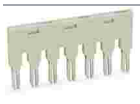
	Item no.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow	www.wago.com/859-407/000-029
	Item no.: 859-407 Jumper; for jumper slot; 7-way; insulated; light gray	www.wago.com/859-407

Downloads

Documentation

Bid Text

859-759 docx - Datei	Feb 20, 2019	docx 15.9 kB	Download
859-759 X81 - Datei	Feb 19, 2019	xml 3.9 kB	Download

Instruction Leaflet

Relay modules, Optocoupler modules	V 2.0.0 Jan 19, 2022	pdf 2.1 MB	Download

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 Aug 18, 2022	pdf 2.2 MB	Download

CAD/CAE-Data

CAD data

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2D/3D Models 859-759	URL	Download

CAE data

EPLAN Data Portal 859-759	URL	Download
WSCAD Universe 859-759	URL	Download
ZUKEN Portal 859-759	URL	Download

Asset Administration Shell

Asset Administration Shell 859-759	URL	Download

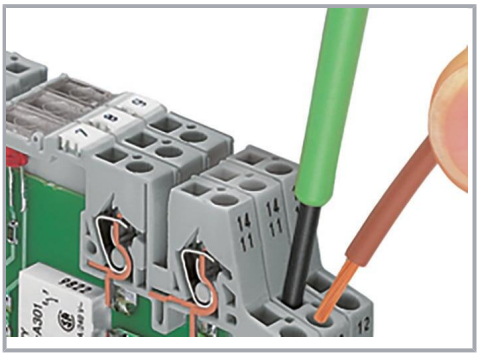
Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-759 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 … 28.8 VDC; Limiting continuous current: 0.1 A; 3-wire connection/high-side switching; Frequency: 100 kHz; Red status indicator; Module width: 6 mm	URL	Download

Installation Notes

Conductor termination



Conductor termination

Commoning

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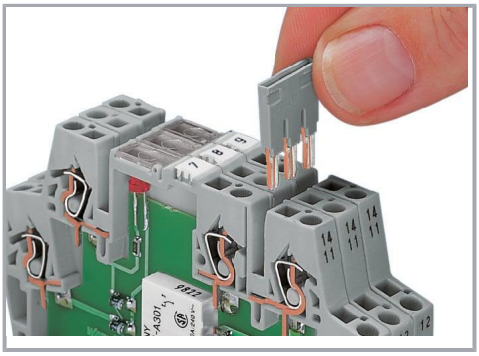

Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System

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