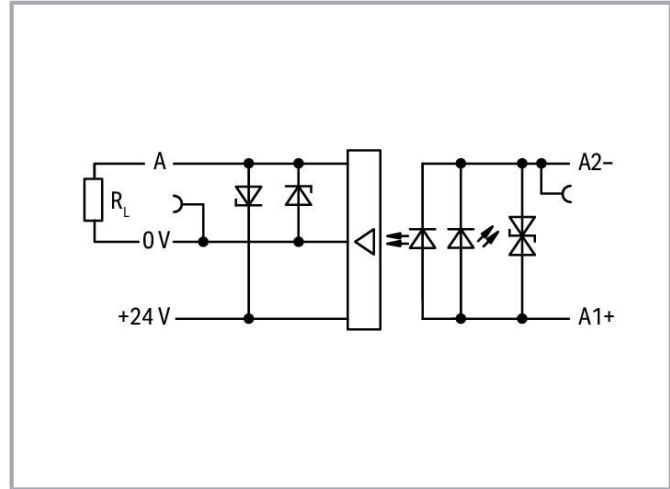
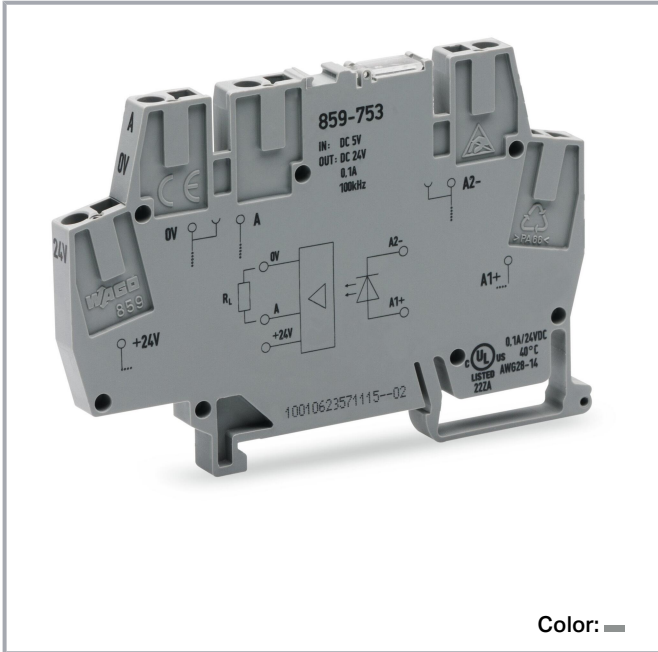


Data sheet | Item number: 859-753

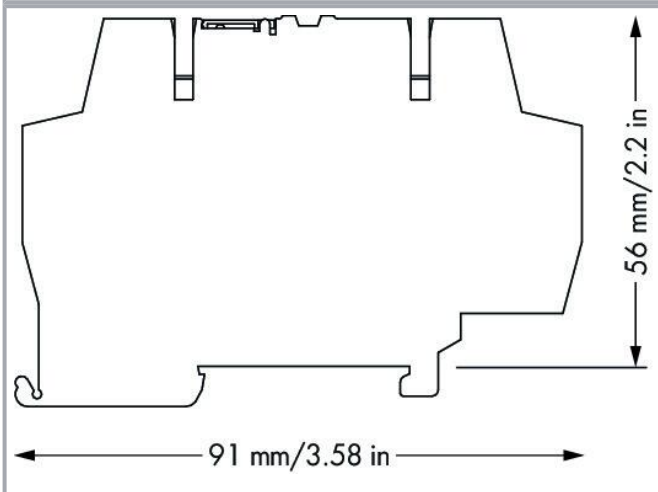
Optocoupler module; Nominal input voltage: 5 VDC; Output voltage range: 0 ... 24 VDC; Module width: 6 mm; gray



www.wago.com/859-753



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 5 V
Input voltage range (low level)	DC 0 ... 1 V
Input voltage range (high level)	DC 4 ... 6.25 V
Nominal input current at U_N	17 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 at output (max.)	≤ DC 1.2 V
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	≤ 5 μs
Switching frequency	≤ 100 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

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



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

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	15.4 g

Environmental requirements

Ambient temperature (operation at U _N)	-25 ... +55 °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

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
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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	4055143605472
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 7(c)-II
SCIP notification number (Austria)	18df1e9a-c697-4ce9-b07c-fbf2ce917e0b
SCIP notification number (Belgium)	401ba1b7-4e7a-420b-b550-c9cac64db2b0
SCIP notification number (Bulgaria)	0c2d8a6c-8f6a-46bc-a964-1cb116893f06
SCIP notification number (Czech Republic)	9241c05e-b8f7-4c26-b91a-7ec9e6bda90f
SCIP notification number (Denmark)	a97c8669-debc-4c08-b28d-7cc466f2e902
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SCIP notification number (France)	eaf07eef-6232-47cf-814a-7297e9538876
SCIP notification number (Germany)	5bf469c3-3a40-4579-8985-c8d4054b59f7
SCIP notification number (Hungary)	a4a1a3cf-9565-451b-9320-f6be12719f7f
SCIP notification number (Italy)	bda63a43-a067-4f7d-a32e-b66dec9ef87f

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


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SCIP notification number (Netherlands)	06ed8cce-30a9-44e2-8cc0-1d87f81da38b
SCIP notification number (Poland)	b5808be2-ab2b-400f-9de8-cdaef1735b14
SCIP notification number (Romania)	b2ce610b-ccd9-47b6-8ce9-a9d6b1906ec7
SCIP notification number (Sweden)	a63143af-d331-4fe9-9dd2-ebe0d64a27d8







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

Optional accessories

Ferrule

Ferrule		
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 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

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



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.: 859-406
Jumper; for jumper slot; 6-way; insulated; light gray

www.wago.com/859-406



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



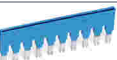
Item no.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow

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



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

	<p>Item no.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red</p>	<p>www.wago.com/859-403/000-005</p>
	<p>Item no.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow</p>	<p>www.wago.com/859-402/000-029</p>
	<p>Item no.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow</p>	<p>www.wago.com/859-403/000-029</p>
	<p>Item no.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue</p>	<p>www.wago.com/859-403/000-006</p>
	<p>Item no.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red</p>	<p>www.wago.com/859-408/000-005</p>
	<p>Item no.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow</p>	<p>www.wago.com/859-408/000-029</p>
	<p>Item no.: 859-409 Jumper; for jumper slot; 9-way; insulated; light gray</p>	<p>www.wago.com/859-409</p>
	<p>Item no.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue</p>	<p>www.wago.com/859-408/000-006</p>
	<p>Item no.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray</p>	<p>www.wago.com/859-403</p>
	<p>Item no.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red</p>	<p>www.wago.com/859-409/000-005</p>
	<p>Item no.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray</p>	<p>www.wago.com/859-404</p>
	<p>Item no.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated; blue</p>	<p>www.wago.com/859-409/000-006</p>
	<p>Item no.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue</p>	<p>www.wago.com/859-402/000-006</p>
	<p>Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray</p>	<p>www.wago.com/859-402</p>

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







	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

Marking accessories

Marking devices

	Item no.: 210-110 Fiber-tip pen	www.wago.com/210-110
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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

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

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

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

End plate

Intermediate plate



Item no.: 859-525

End and intermediate plate; 1 mm thick; gray

www.wago.com/859-525

Downloads

Documentation

Bid Text

859-753 docx - Datei	2019 Feb 20	docx 15.9 kB	Download
859-753 X81 - Datei	2019 Feb 19	xml 3.9 kB	Download

Instruction Leaflet

Relay modules, Optocoupler modules	V 2.0.0 2022 Jan 19	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 Aug 18	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 859-753		URL	Download
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Subject to changes. Please also observe the further product documentation!

CAE data

EPLAN Data Portal 859-753	URL	Download
WSCAD Universe 859-753	URL	Download
ZUKEN Portal 859-753	URL	Download

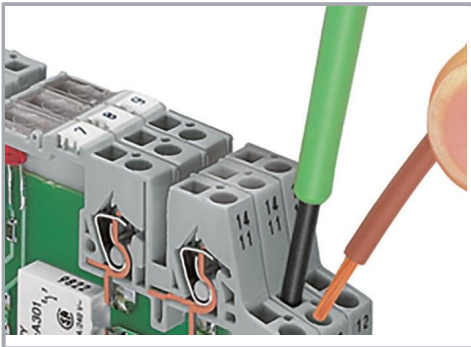
Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-753	URL	Download
Optocoupler module; Nominal input voltage: 5 VDC; Output voltage range: 0 ... 24 VDC; Module width: 6 mm; gray		

Installation Notes

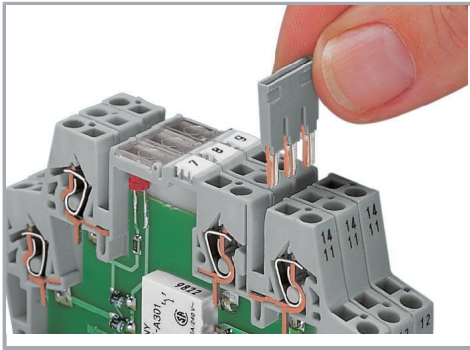
Conductor termination



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!