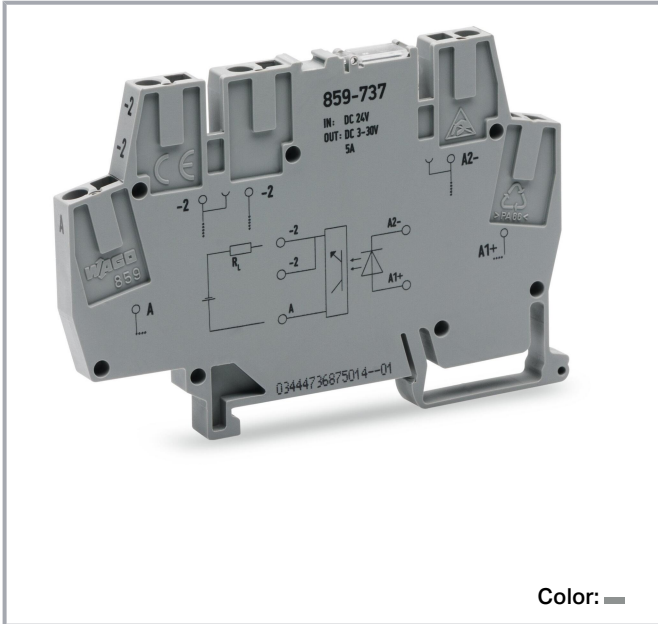


Data sheet | Item number: 859-737

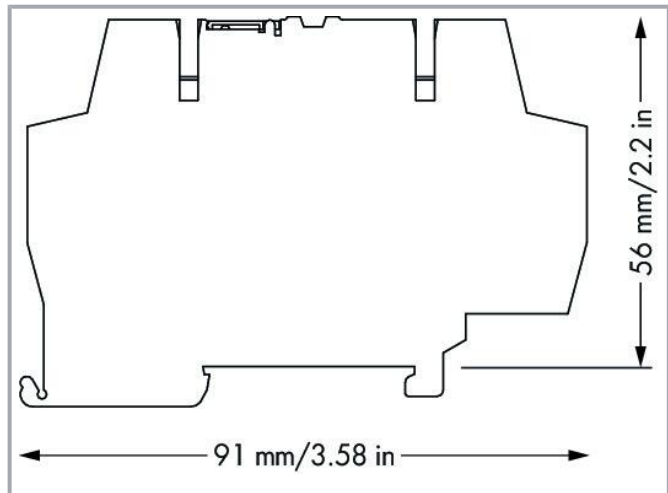
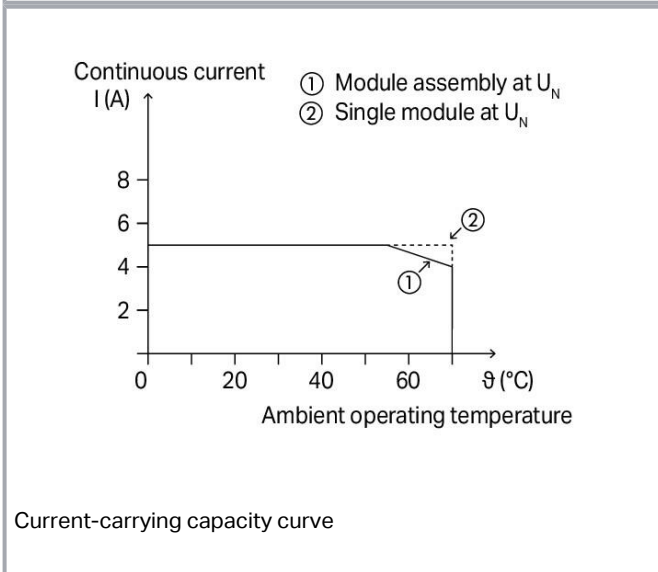
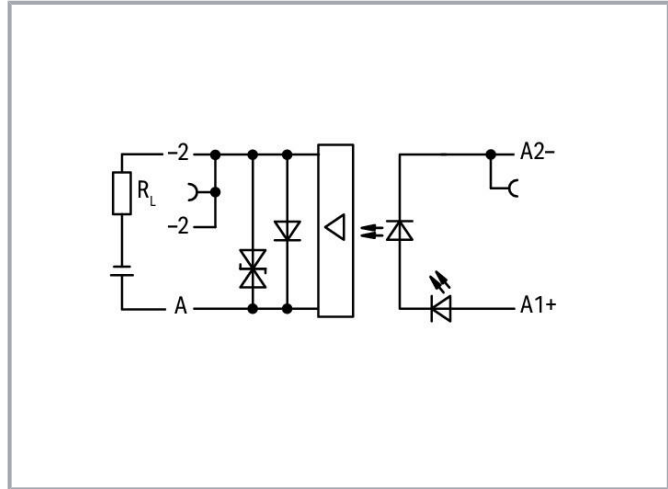
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 30 VDC; Limiting continuous current: 5 A; 2-wire connection; Red status indicator; Module width: 6 mm; gray



www.wago.com/859-737



Color: —



**Data
Notes**

Note

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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 15 ... 30 V
Nominal input current at U_N	4 mA
Input current range	2 ... 7 mA

Load circuit

Circuit type	2-wire connection
Limiting continuous current	10 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 0.2 V
Leakage current at rated voltage	\leq 5 μ A
Turn-on time	\leq 40 μ s
Turn-off time	\leq 70 μ s
Rise time (t_{10-90})	18 μ s
Drop-out time (t_{90-10})	13 μ s
Switching frequency	\leq 3 kHz

Signaling

Status indicator	Red LED
------------------	---------

Safety and protection

Rated voltage	300 V
Overvoltage category	II
Pollution degree	2

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

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

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	0.2 ... 1.5 mm ² / 24 ... 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	19.7 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 ... +85 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 20 K)
Relative humidity	5 ... 95 % (no condensation permissible)

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



Operating altitude (max.)	2000 m
---------------------------	--------

Standards and specifications

Standards/specifications	EN 61010-2-201 EN 61000-6-2 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
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143605328
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)	9a7fc626-9466-4097-bccc-d0061e85242c
SCIP notification number (Belgium)	8d3b39a2-e984-4c6e-911c-4f4b5bc6c914
SCIP notification number (Bulgaria)	f98a02fc-be56-4703-b975-0734b9917cc7
SCIP notification number (Czech Republic)	c813336d-3fe5-4e2f-8040-5b35c862642b
SCIP notification number (Denmark)	cfbab42c-baa0-42e4-9c12-52cabe7d8715
SCIP notification number (Finland)	9534f08c-a758-406f-94b0-34d9b78b36bc
SCIP notification number (France)	438dbd41-68dd-48bc-b5a3-096fcaa6eed8
SCIP notification number (Germany)	f2cb3156-167b-4c4d-adc9-cc8fe631edfa
SCIP notification number (Hungary)	3cb68cfc-8159-427e-bdc5-bbb243576637

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


WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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


SCIP notification number (Italy)	5d8dc082-ff4e-4179-8406-92bdee159053
SCIP notification number (Netherlands)	d7f90666-ae3a-4c0e-8f17-9e57bc890693
SCIP notification number (Poland)	92e9e438-d002-4f60-aa50-dd05f0f5d528
SCIP notification number (Romania)	17ff95e8-9d34-4a4e-9321-18f0c6483e04
SCIP notification number (Sweden)	7cda85a0-194b-4391-a77a-b7a4f73ac9b9

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


Declarations of conformity and manufacturer's declarations

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

Optional accessories






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 ²	www.wago.com/859-500
--	--	--


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	www.wago.com/216-321


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

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/216-322
---	---	--

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
--	--	--


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
---	--	--

End plate

Intermediate plate

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

Jumpers

Jumper

	Item no.: 859-408 Jumper; for jumper slot; 8-way; insulated; light gray	www.wago.com/859-408
---	---	--

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



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



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



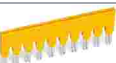
Item no.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

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

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

	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
	Item no.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	www.wago.com/859-402/000-006

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

	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

Downloads

Documentation

Bid Text

859-737 docx - Datei	2019 Feb 20	docx 15.7 kB	Download
-------------------------	-------------	-----------------	----------

859-737 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
------------------------------------	------------------------	---------------	----------

Additional Information

Disposal and Recycling	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
------------------------	------------------------	---------------	----------

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

CAD/CAE-Data

CAD data

2D/3D Models 859-737	URL	Download
----------------------	---------------------	--------------------------

CAE data

EPLAN Data Portal 859-737	URL	Download
---------------------------	---------------------	--------------------------

WSCAD Universe 859-737	URL	Download
------------------------	---------------------	--------------------------

ZUKEN Portal 859-737	URL	Download
----------------------	---------------------	--------------------------

Environmental Product Compliance

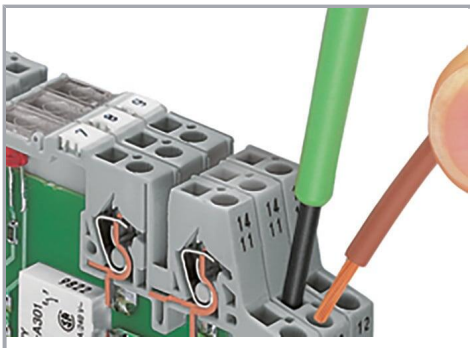
Compliance Search

Environmental Product Compliance 859-737	URL	Download
--	---------------------	--------------------------

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 30 VDC; Limiting continuous current: 5 A; 2-wire connection; Red status indicator; Module width: 6 mm; gray

Installation Notes

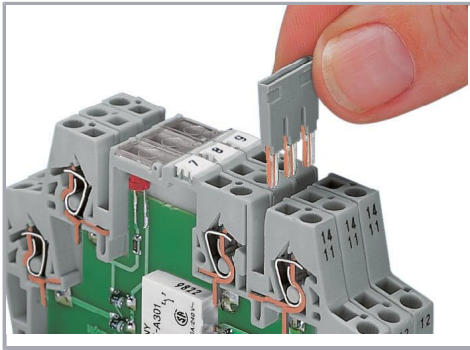
Conductor termination



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!