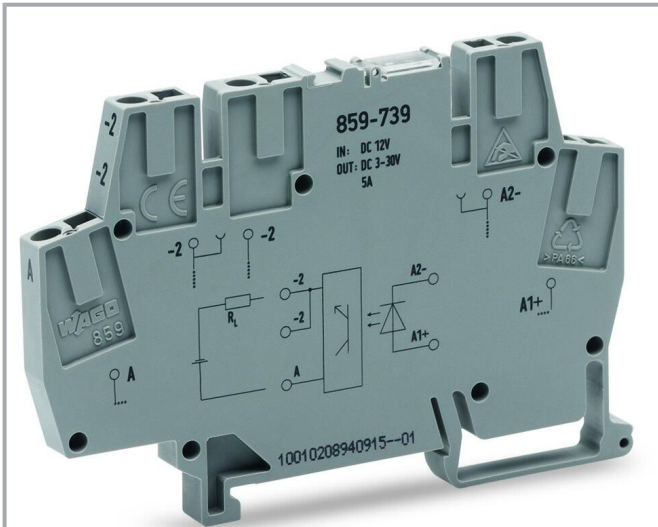


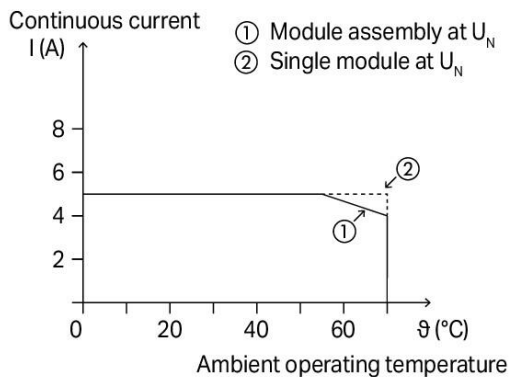
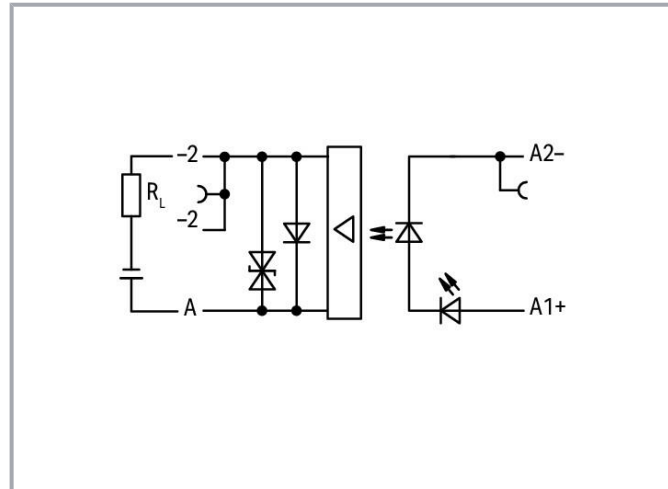
Data sheet | Item number: 859-739

Optocoupler module; Nominal input voltage: 12 VDC; Output voltage range: 3 ... 30 VDC; Limiting continuous current: 5 A; 2-wire connection; Red status indicator; Module width: 6 mm; gray

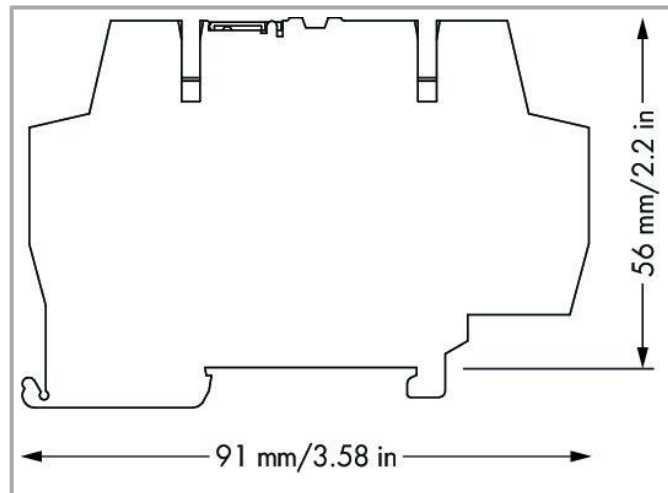
www.wago.com/859-739



Color: —



Current-carrying capacity curve



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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.
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Technical data

Control circuit

Nominal input voltage U_N	DC 12 V
Input voltage range (low level)	DC 0 ... 5 V
Input voltage range (high level)	DC 9.6 ... 14.4 V
Nominal input current at U_N	4 mA

Load circuit

Circuit type	2-wire connection
Limiting continuous current	5 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
Voltage drop	$\leq$ 0.2 VDC
Turn-on time	$\leq$ 200 μ s
Turn-off time	$\leq$ 450 μ s
Switching frequency	$\leq$ 100 Hz

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

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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 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	19.1 g

Environmental requirements

Ambient temperature (operation at U_N)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	$\geq (T_{\text{ambient}} + 20 \text{ K})$
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

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
Recupel Type	
ECCN	NO DATA
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143605397
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)
SCIP notification number (Austria)	39f3c423-b615-4841-aff8-23d7c9121c24
SCIP notification number (Belgium)	6f4c2975-49a1-4639-be29-e53752b95fb0
SCIP notification number (Bulgaria)	bb74e391-e8c3-4041-9aeb-959a7ac3cd27
SCIP notification number (Czech Republic)	4280c7fd-438b-4b0e-965d-ee6e17b3fd3a
SCIP notification number (Denmark)	fc47b11f-b287-4a4b-a461-8c2927756c55
SCIP notification number (Finland)	c2e510f2-c813-4187-91e1-69dffe2f9819
SCIP notification number (France)	756fd24a-889f-46bd-a7d2-1f1c1d26ec5c
SCIP notification number (Germany)	463e7149-00b3-4bab-b38c-2732020c99c8
SCIP notification number (Hungary)	055de816-2613-4c2b-b7c7-6ec3393ec24a
SCIP notification number (Italy)	50028556-3f23-470b-9feb-62fd7ace9062
SCIP notification number (Netherlands)	e3075e2c-132f-42d2-bc9c-b0af024674bf

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SCIP notification number (Poland)	312f46b2-60be-49c0-952c-8e69790d4d26
SCIP notification number (Romania)	82e9b537-d7a1-4cd1-bc8f-e449d081aae3
SCIP notification number (Sweden)	0e39ea5b-cf32-4042-8008-9e402cba1a55

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

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	
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
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Marking accessories

Marking device			
	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	

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**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**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**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

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**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**

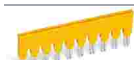
Jumper; for jumper slot; 6-way; insulated; red

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**

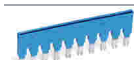
Jumper; for jumper slot; 10-way; insulated; red

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**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

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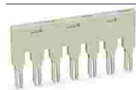


	Item no.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	www.wago.com/859-403/000-006
	Item no.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red	www.wago.com/859-408/000-005
	Item no.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow	www.wago.com/859-408/000-029
	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
	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

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

**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

859-739	Feb 20, 2019	docx	Download
docx - Datei		15.7 kB	

859-739	Feb 19, 2019	xml	Download
X81 - Datei		3.9 kB	

Instruction Leaflet

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

Additional Information

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

CAD/CAE-Data

CAD data

2D/3D Models 859-739	URL	Download
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CAE data

ZUKEN Portal 859-739	URL	Download
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EPLAN Data Portal 859-739	URL	Download
WSCAD Universe 859-739	URL	Download
Asset Administration Shell		
Asset Administration Shell 859-739	URL	Download

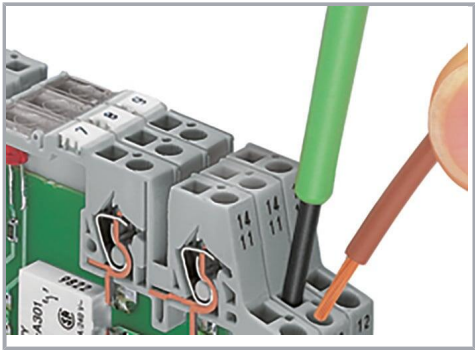
Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-739	URL	Download
Optocoupler module; Nominal input voltage: 12 VDC; Output voltage range: 3 ... 30 VDC; Limiting continuous current: 5 A; 2-wire connection; Red status indicator; Module width: 6 mm; gray		

Installation Notes

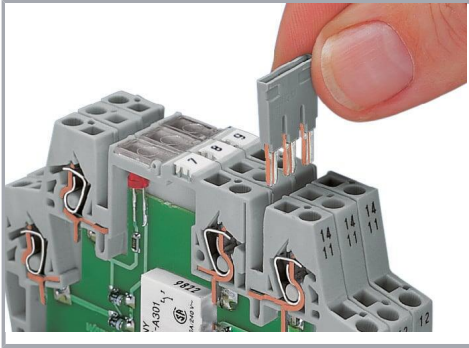
Conductor termination



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

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