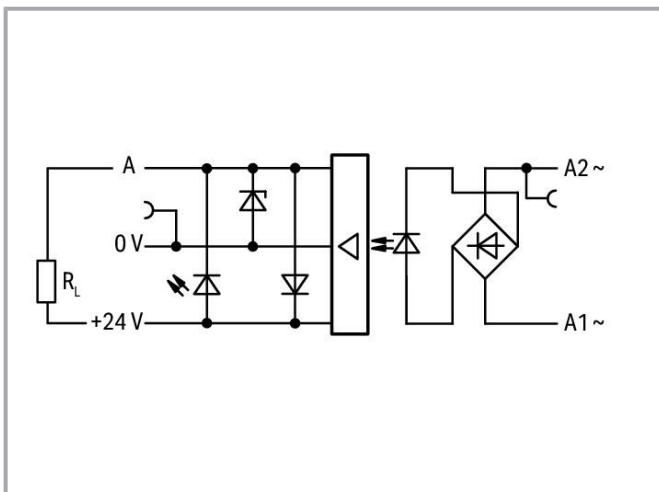
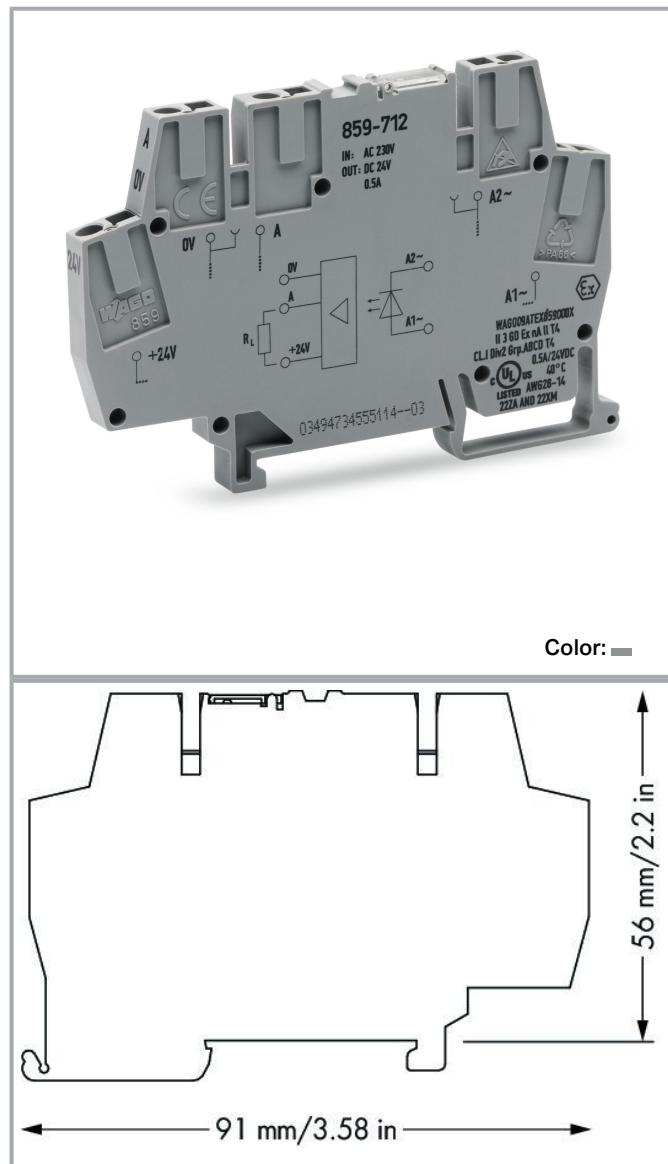


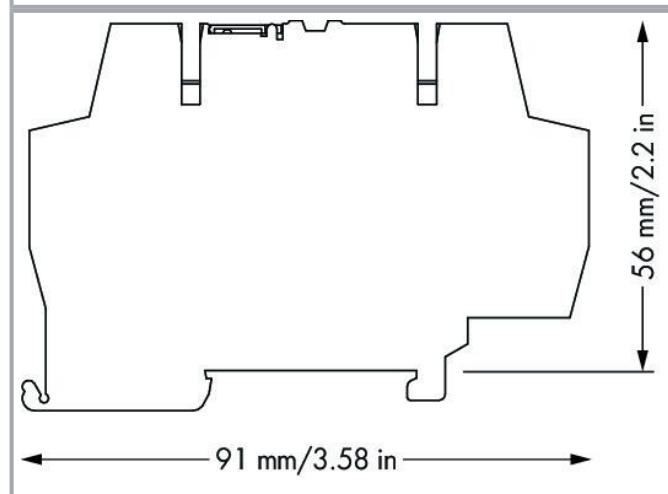
Data sheet | Item number: 859-712

Optocoupler module; Nominal input voltage: 230 VAC; Output voltage range: 20 ... 30 VDC; Limiting continuous current: 0.5 A; 3-wire connection/low-side switching; Red status indicator; Module width: 6 mm; gray

www.wago.com/859-712



Color: ■■■



Data Notes

Note

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

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	AC 230 V
Input voltage range (low level)	AC 0 ... 90 V
Input voltage range (high level)	AC 175 ... 270 V
Nominal input current at U_N	1 mA

Load circuit

Circuit type	3-wire connection Low-side switching
Limiting continuous current	0.5 A
Nominal output voltage	DC 24 V
Output voltage range	DC 20 ... 30 V
Voltage drop at output (max.)	\leq DC 1.2 V
Leakage current at rated voltage	\leq 10 μ A
Output closed-circuit current (without load) max.	11 mA
Turn-on time	\leq 30 ms
Turn-off time	\leq 30 ms

Signaling

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

Safety and protection

Rated voltage	300 V
Type of circuits	Mains circuits
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)

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	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	4055144130218
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)	100897eb-1314-4b82-8867-b9c6c6e86187
SCIP notification number (Belgium)	c07a0c21-992b-4d77-8469-1ae95bcc1824
SCIP notification number (Bulgaria)	25af3641-d92a-4797-8b02-ba2215de6706
SCIP notification number (Czech Republic)	1f05f530-2202-4398-a6dd-294f4cbd62da
SCIP notification number (Denmark)	d181df40-dac5-4804-9e65-6f6b7365dba4
SCIP notification number (Finland)	8fe5eb1a-4ad4-42c2-a30d-647cb6220bc6
SCIP notification number (France)	c78dbb24-1d1a-4c9f-a734-a62059b882dc
SCIP notification number (Germany)	00a76a12-8d37-4ca9-9d7c-b2e8466fc8c0
SCIP notification number (Hungary)	e6018d63-bdd4-4068-baa6-dfce07aae4f0
SCIP notification number (Italy)	874b3706-7f93-4553-a528-ff0388c22074

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

SCIP notification number (Netherlands)	90acae96-e4ff-40df-b180-f69ed6c9b57e
SCIP notification number (Poland)	83da62e6-ba4f-4920-8124-4132bda69ac6
SCIP notification number (Romania)	582fc0f6-d75f-4aca-8bb5-1ae677f9c441
SCIP notification number (Sweden)	d097a094-e2dd-4617-9c01-202e0473b2ef

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C- DE.AM02. B.00122 /19

Declarations of conformity and manufacturer's declarations

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

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726

Optional accessories

End plate

Intermediate plate



Item no.: 859-525

End and intermediate plate; 1 mm thick; gray

www.wago.com/859-525

Tool

Operating tool

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

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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

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

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

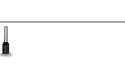
www.wago.com/216-222



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

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

	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
	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

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

	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
	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

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



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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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

859-712

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Instruction Leaflet

Relay modules, Optocoupler modules

V 2.0.0
2022 Jan 19

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2.1 MB

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Additional Information

Disposal and Recycling

V 1.1.0

pdf
2.2 MB

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Electrical and electronic equipment, Batteries, Packaging

2022 Aug 18

CAD/CAE-Data

CAD data

2D/3D Models 859-712

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CAE data

EPLAN Data Portal 859-712

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WSCAD Universe 859-712

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-712

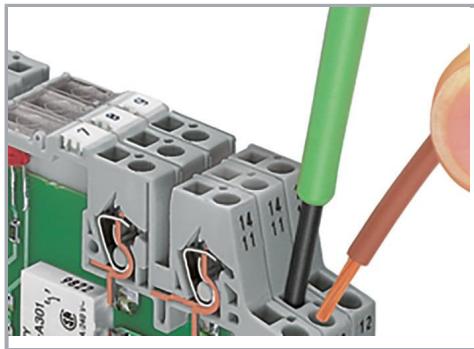
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Optocoupler module; Nominal input voltage: 230 VAC; Output voltage range: 20 ... 30 VDC; Limiting continuous current: 0.5 A; 3-wire connection/low-side switching; Red status indicator; Module width: 6 mm; gray

Installation Notes

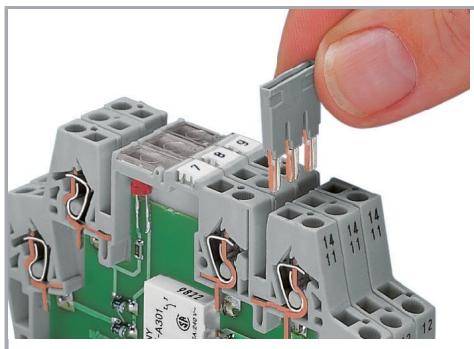
Conductor termination

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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