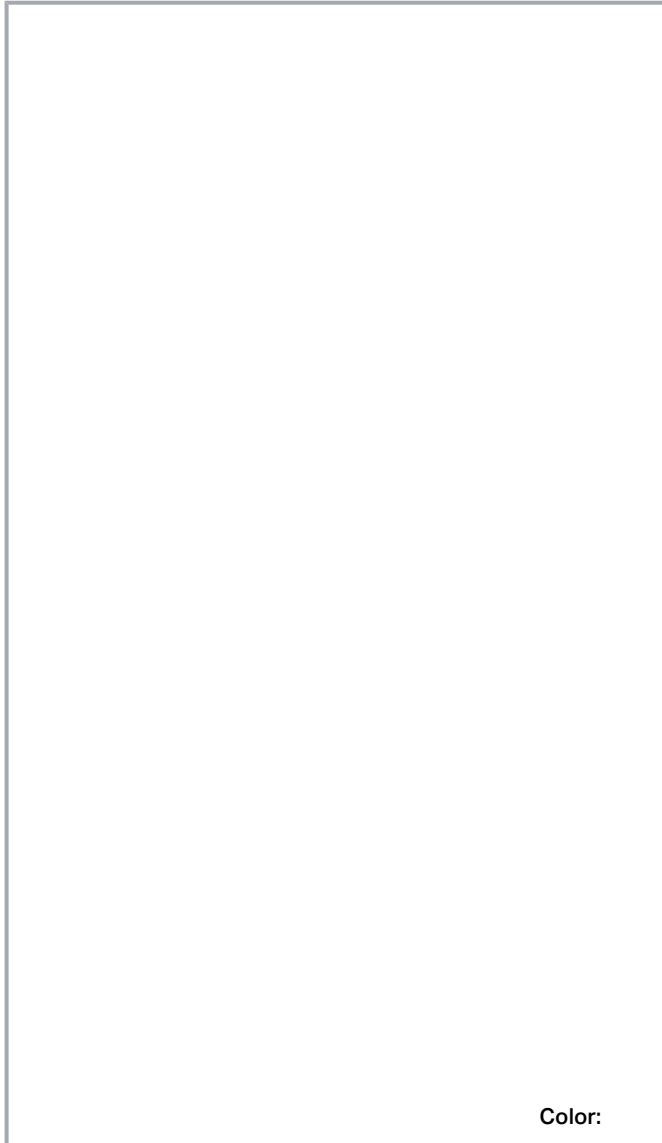


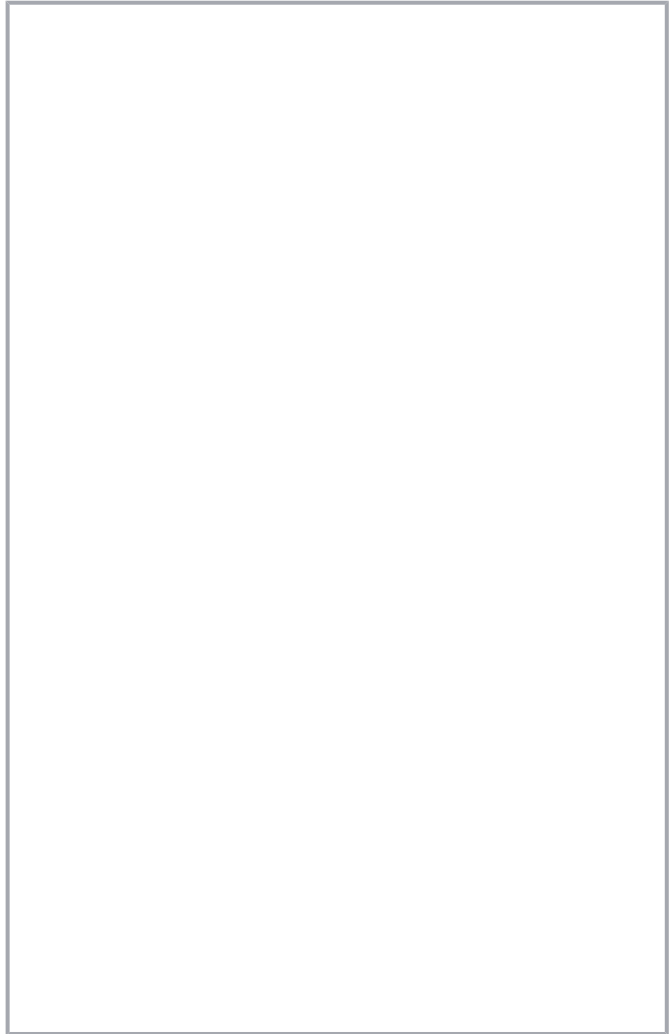
Data sheet | Item number: 859-738

Optocoupler module; Nominal input voltage: 5 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/859-738



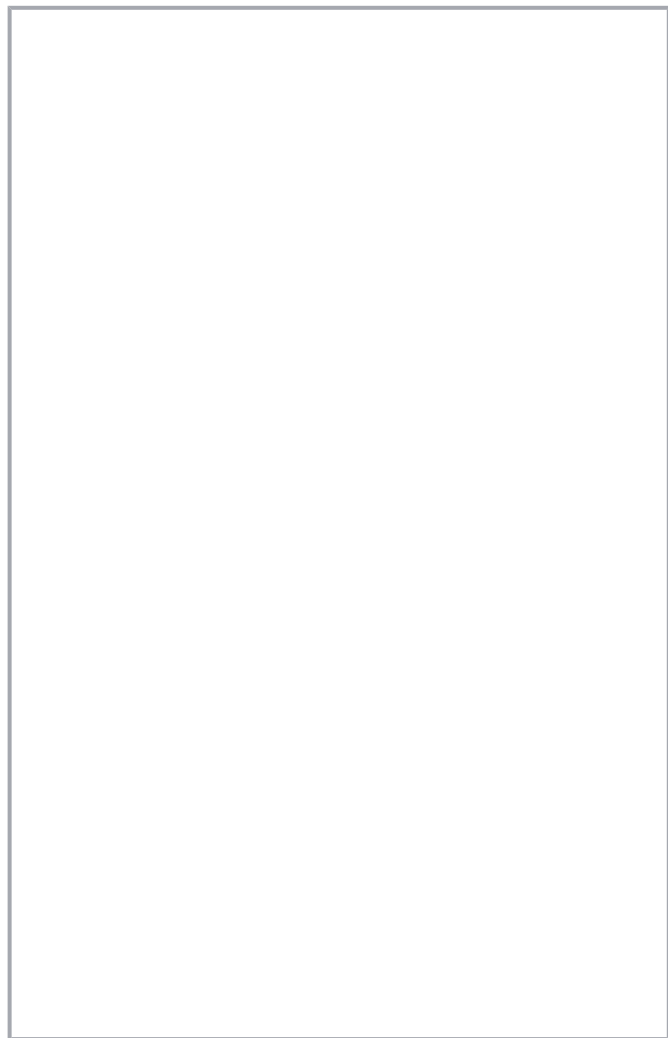
Color:



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

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Data

Notes

Note

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

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Control Circuit

Nominal input voltage U_N	DC 5 V
Input voltage range (low level)	DC 0 ... 2 V
Input voltage range (high level)	DC 4.5 ... 6 V
Nominal input current at U_N	8 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
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)	Reinforced insulation (safe isolation)
Protection type	IP20; in connected state or when using 859-525 end plate

Connection data

Connection technology	CAGE CLAMP®
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Subject to changes. Please also observe the further product documentation!



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	18.7 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	≥ (T _{ambient} + 20 K)
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

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

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03

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



eCl@ss 9.0	27-26-15-03
ETIM 8.0	EC001504
ETIM 7.0	EC001504
Recupel Type	
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143605359
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)	f6f98cb5-393a-4ed3-b182-e0ae03a73739
SCIP notification number (Belgium)	59f16a29-4d42-43f0-a3b9-ffd999ad0f5f
SCIP notification number (Bulgaria)	84bb8a94-0b7a-4834-97a3-614bcd83c4bb
SCIP notification number (Czech Republic)	a3131f20-69b1-42df-a745-43f8f64e2e29
SCIP notification number (Denmark)	78eb2b10-0305-4016-ad47-b26bfa3852ac
SCIP notification number (Finland)	c38f97d2-4df3-474a-807e-2464e763a3b8
SCIP notification number (France)	c8f86971-e035-4aba-8e04-4f127e557c28
SCIP notification number (Germany)	f0051179-1382-4dc1-aff4-e29ab711fe1a
SCIP notification number (Hungary)	4fb85026-e624-4a5d-9f38-12a00fb16a4f
SCIP notification number (Italy)	68211a7b-f698-4b5f-b798-edaecd297a65
SCIP notification number (Netherlands)	2d39234b-82fd-416e-bc44-579b54df273c
SCIP notification number (Poland)	8aaafedc-3287-4ac6-ae32-04800535dd29
SCIP notification number (Romania)	35ec1dfe-5eb3-4435-ae88-2256194a1534
SCIP notification number (Sweden)	f011945a-2bfb-4121-9b31-c9f25cb2c939

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

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Optional accessories

Jumpers

Jumper		
Item no.: 859-404/000-005		www.wago.com/859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red		
Item no.: 859-404/000-006		www.wago.com/859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue		
Item no.: 859-405/000-005		www.wago.com/859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red		
Item no.: 859-405/000-029		www.wago.com/859-405/000-029
Jumper; for jumper slot; 5-way; insulated; yellow		
Item no.: 859-405		www.wago.com/859-405
Jumper; for jumper slot; 5-way; insulated; light gray		
Item no.: 859-404/000-029		www.wago.com/859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow		
Item no.: 859-405/000-006		www.wago.com/859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue		
Item no.: 859-406/000-005		www.wago.com/859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red		
Item no.: 859-409/000-029		www.wago.com/859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow		
Item no.: 859-410/000-005		www.wago.com/859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red		
Item no.: 859-410/000-029		www.wago.com/859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow		
Item no.: 859-410		www.wago.com/859-410
Jumper; for jumper slot; 10-way; insulated; light gray		
Item no.: 859-410/000-006		www.wago.com/859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue		

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



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
Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	www.wago.com/859-402

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

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**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 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**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**Testing and measuring**

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

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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

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

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**

Item no.	Date	File name	Size	Action
859-738	2019 年2月20 日	docx	15.6 kB	Download

docx - Datei

859-738	2019 年2月19 日	xml	3.9 kB	Download
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X81 - Datei

Instruction Leaflet

Relay modules, Optocoupler modules	V 2.0.0	pdf	Download
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2022 年1月19 日

2.1 MB

Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download
Electrical and electronic equipment, Batteries, Packaging	2022 年8月18 日	2.2 MB	

CAD/CAE-Data**CAD data**

2D/3D Models 859-738	URL	Download
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CAE data

EPLAN Data Portal 859-738	URL	Download
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WSCAD Universe 859-738	URL	Download
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ZUKEN Portal 859-738	URL	Download
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Environmental Product Compliance**Compliance Search**

Environmental Product Compliance 859-738	URL	Download
Optocoupler module; Nominal input voltage: 5 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**

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!