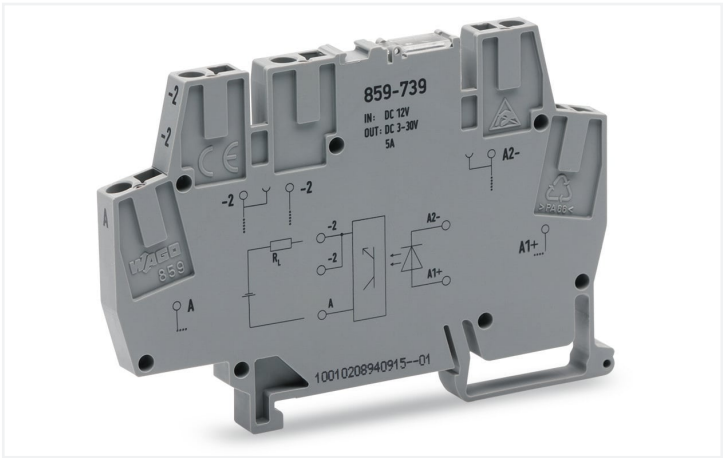


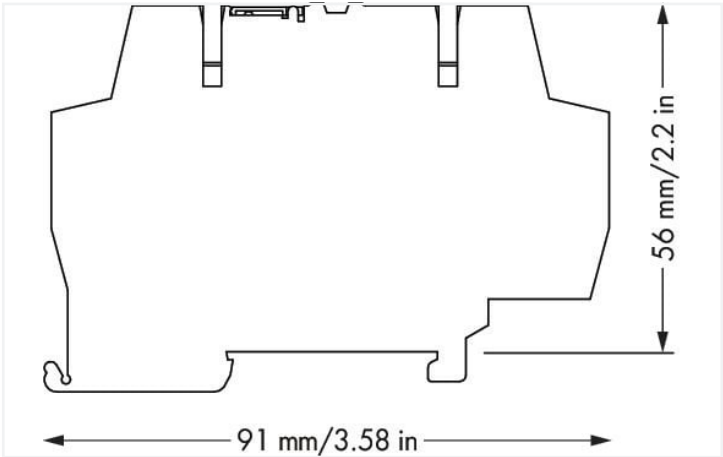
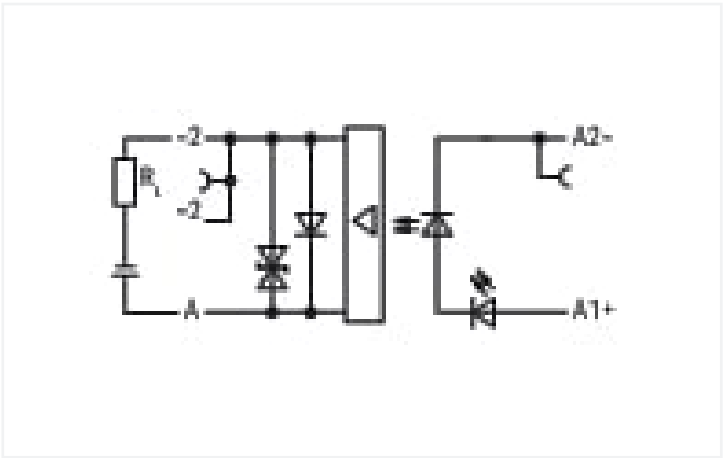
Data Sheet | Item Number: 859-739

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

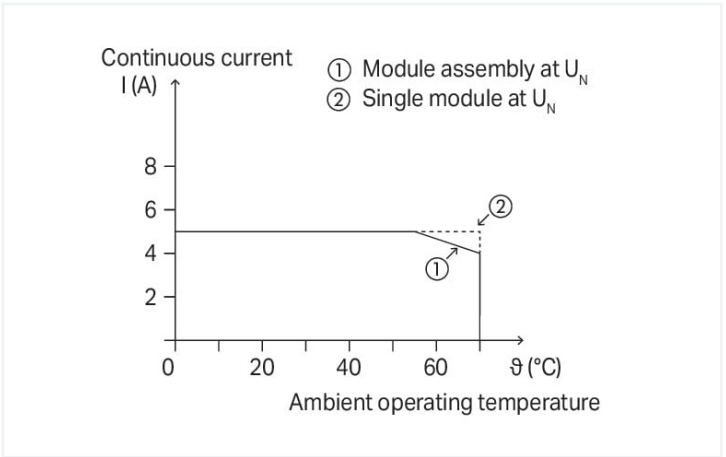
<https://www.wago.com/859-739>



Color: ■ gray



Dimensions in mm



Current-carrying capacity curve

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.

Technical data			
Control circuit		Load circuit	
Nominal input voltage U_N	DC 12 V	Circuit type	2-wire connection
Input voltage range (low level)	DC 0 ... 5 V	Limiting continuous current	5 A
Input voltage range (high level)	DC 9.6 ... 14.4 V	Peak output current	25 A
Nominal input current at U_N	4 mA	Nominal output voltage	DC 24 V
		Output voltage range	DC 3 ... 30 V
		Voltage drop	≤ 0.2 VDC
		Turn-on time	≤ 200 μs
		Turn-off time	≤ 450 μs
		Switching frequency	≤ 100 Hz



Signaling	
Status indicator	Red LED

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 (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	
Note (material data)	Information on material specifications can be found here
Color	gray
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
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	≥ (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

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143605397
Customs tariff number	85365005000

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
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
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		Declarations of conformity and manufacturer's declarations
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
		EU-Declaration of Confor- mity WAGO GmbH & Co. KG
		UK-Declaration of Confor- mity WAGO GmbH & Co. KG



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-739

Download icon

Documentation

Bid Text

859-739	19.02.2019	xml 3.79 KB	Download icon
859-739	20.02.2019	docx 15.37 KB	Download icon

Instruction Leaflet

Relay modules, Opto-coupler modules	V 2.0.0 19.01.2022	pdf 2066.27 KB	Download icon
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CAD/CAE-Data

CAD data

2D/3D Models 859-739

Download icon

CAE data

EPLAN Data Portal 859-739

Download icon

WSCAD Universe 859-739

Download icon

ZUKEN Portal 859-739

Download icon

1 Compatible Products

1.1 Optional Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 859-525

End and intermediate plate; 1 mm thick; gray

1.1.1.2 Intermediate plate

Item No.: 859-525

End and intermediate plate; 1 mm thick; gray



1.1.2 Ferrule			
1.1.2.1 Ferrule			
			
Item No.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	Item No.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	Item No.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	Item No.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray
			
Item No.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	Item No.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black		
1.1.3 Jumper			
1.1.3.1 Jumper			
			
Item No.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	Item No.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray	Item No.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red	Item No.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow
			
Item No.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	Item No.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	Item No.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red	Item No.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow
			
Item No.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	Item No.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	Item No.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow
			
Item No.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue	Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray	Item No.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red	Item No.: 859-404/000-029 Jumper; for jumper slot; 4-way; insulated; yellow
			
Item No.: 859-405/000-006 Jumper; for jumper slot; 5-way; insulated; blue	Item No.: 859-405 Jumper; for jumper slot; 5-way; insulated; light gray	Item No.: 859-405/000-005 Jumper; for jumper slot; 5-way; insulated; red	Item No.: 859-405/000-029 Jumper; for jumper slot; 5-way; insulated; yellow
			
Item No.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue	Item No.: 859-406 Jumper; for jumper slot; 6-way; insulated; light gray	Item No.: 859-406/000-005 Jumper; for jumper slot; 6-way; insulated; red	Item No.: 859-406/000-029 Jumper; for jumper slot; 6-way; insulated; signal yellow
			
Item No.: 859-407/000-006 Jumper; for jumper slot; 7-way; insulated; blue	Item No.: 859-407 Jumper; for jumper slot; 7-way; insulated; light gray	Item No.: 859-407/000-005 Jumper; for jumper slot; 7-way; insulated; red	Item No.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow
			
Item No.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue	Item No.: 859-408 Jumper; for jumper slot; 8-way; insulated; light gray	Item No.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red	Item No.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow
			
Item No.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated; blue	Item No.: 859-409 Jumper; for jumper slot; 9-way; insulated; light gray	Item No.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red	Item No.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated; yellow



1.1.4 Marking

1.1.4.1 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



Item No.: 248-502
Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-503
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-504
Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-506
Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

1.1.4.2 Marking device



Item No.: 210-110
Fiber-tip pen

1.1.5 Test and measurement

1.1.5.1 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

1.1.6 Tool

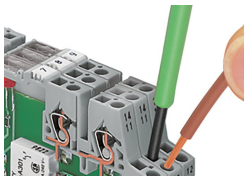
1.1.6.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

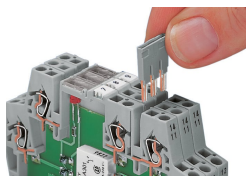
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System