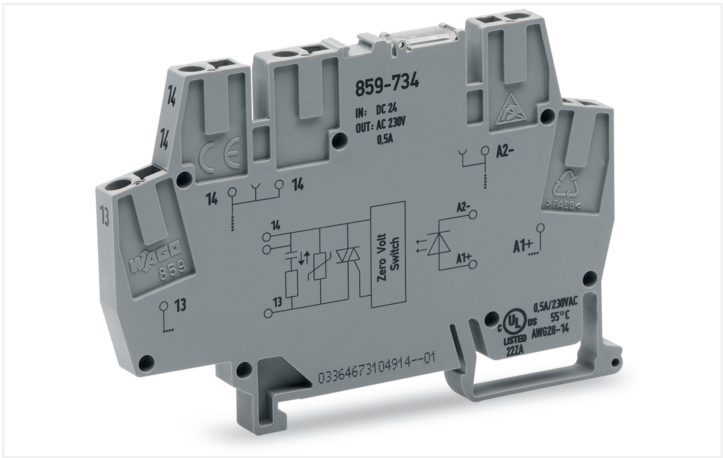


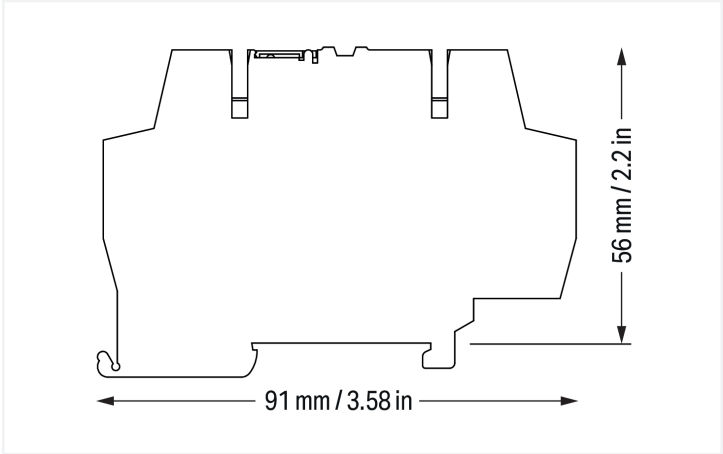
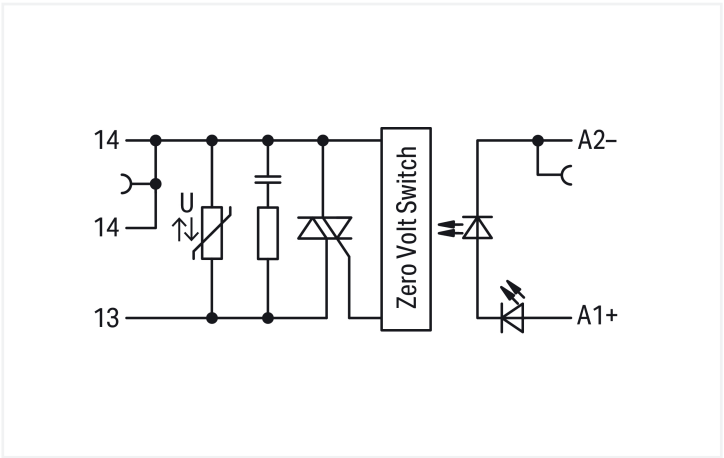
Data Sheet | Item Number: 859-734

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range 12 ... 260VAC; Limiting continuous current: 1 A; 2-wire connection; zero-cross switching; Red status indicator; Module width: 6 mm; light gray

<https://www.wago.com/859-734>



Color: ■ light gray



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	
Nominal input voltage $U_N$	24 VDC
Input voltage range	16 ... 30 VDC
Input voltage range (low level)	0 ... 5 VDC
Input voltage range (high level)	19 ... 28.8 VDC
Nominal input current at $U_N$	7 mA
Input current range	2 ... 9 mA
Load circuit	
Circuit type	2-wire connection Zero-voltage switching
Limiting continuous current	1 A
Peak output current	30 A
Nominal output voltage	230 VAC
Output voltage range	12 ... 260 VAC (50 ... 60 Hz)
Voltage drop	$\leq 1.2$ VAC
Leakage current at rated voltage	$\leq 1$ mA
Switching current (min.)	10 mA
Turn-on time	$\leq 10$ ms
Turn-off time	$\leq 10$ ms
Switching frequency	50 Hz / 60 Hz



Signaling	
Status indicator	Red LED

Safety and protection	
Rated Voltage	300 V
Type of circuits	Mains circuits
Overvoltage category	III
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3.5 kVrms
Insulation type (control/load circuit)	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 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.14 ... 2.5 mm² / 26 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 1.5 mm² / 26 ... 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)	<a href="#">Information on material specifications can be found here</a>
Color	light gray
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.338 MJ
Weight	20.2 g

Environmental requirements	
Ambient temperature (operation at U <sub>N</sub> )	-40 ... +70 °C
Ambient temperature UL (operation at U <sub>N</sub> )	-40 ... +40 °C
Ambient temperature (storage)	-40 ... +85 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T <sub>ambient</sub> + 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 UL 508

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966181890
Customs tariff number	85365005000

Product classification	
UNSPSC	39121524
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	1303-86-2 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	2d0aafc9-69f4-4dfe-91a6-5392066639a2
SCIP notification number (Belgium)	d2e3bbb4-8e0e-4856-b782-f2d27110ca67
SCIP notification number (Bulgaria)	1aedd05-e4bb-42a6-8024-b74fc8dbce10
SCIP notification number (Czech Republic)	039f9c15-9145-41d3-98f7-686100879009
SCIP notification number (Denmark)	883bc000-50ee-4c40-8874-7868869e1042
SCIP notification number (Finland)	563d3714-75c9-4f52-acdf-6f2546010694
SCIP notification number (France)	db3f26aa-b414-4b7a-8fb8-849f2571e5c8
SCIP notification number (Germany)	c022c058-8013-4a80-a4c2-6f63c4150232
SCIP notification number (Hungary)	1612fe70-16f0-45c4-a93a-9465f512100c
SCIP notification number (Italy)	3cce7617-5d8f-49a6-87be-01cd8af4c5b4
SCIP notification number (Netherlands)	3ec2c466-ec96-4aa7-bfa1-9ba2139958f0
SCIP notification number (Poland)	dfe413ee-e39f-4ca9-b4d3-d0190017b7ea
SCIP notification number (Romania)	a01ee6cb-183d-4fef-a557-c4b4b1b89467
SCIP notification number (Sweden)	19b6011e-cc4a-4fb0-8127-219ad4ff43b4



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 859-734

Documentation

Bid Text
859-734
19.02.2019
xml 3.83 KB
↓
859-734
20.02.2019
docx 15.46 KB
↓

Instruction Leaflet
Relay modules, Opto-coupler modules
V 2.0.0 19.01.2022
pdf 2066.27 KB
↓

CAD/CAE-Data

CAD data
2D/3D Models 859-734

CAE data
EPLAN Data Portal 859-734
↓
WSCAD Universe 859-734
↓
ZUKEN Portal 859-734
↓



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



1.1.3.1 Jumper



**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; 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 0,5mm<sup>2</sup>

## 1.1.6 Tool

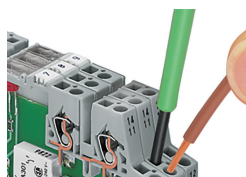
### 1.1.6.1 Operating tool

**Item No.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

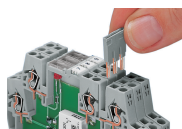
## Installation Notes

### Conductor termination



Conductor termination

### Commoning



Easy commoning using adjacent jumpers

### Marking



Marking via Mini-WSB Quick Marking System