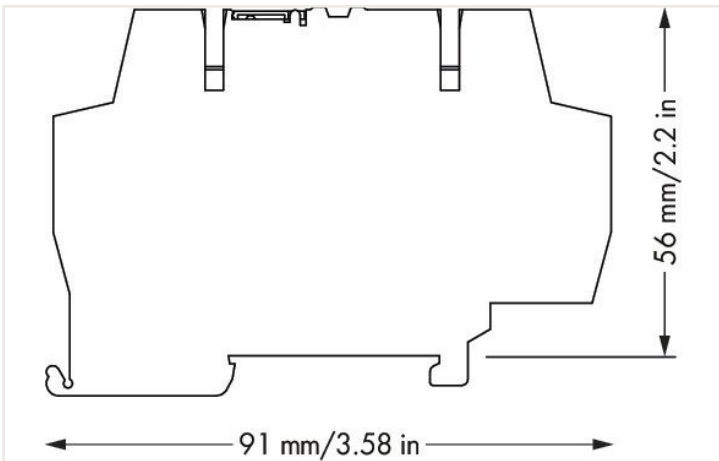
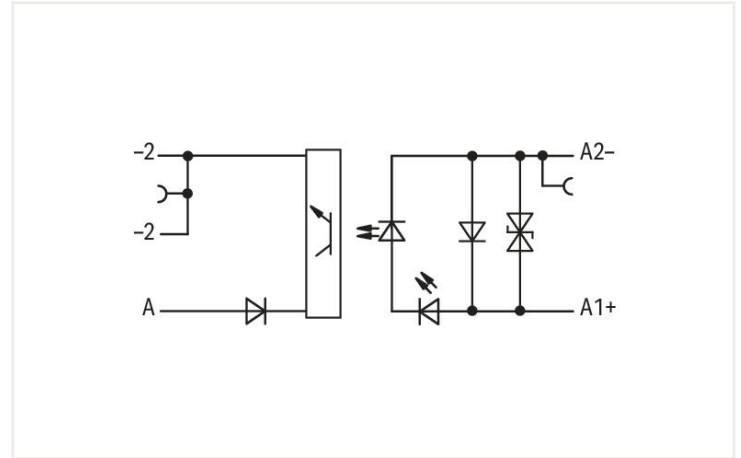
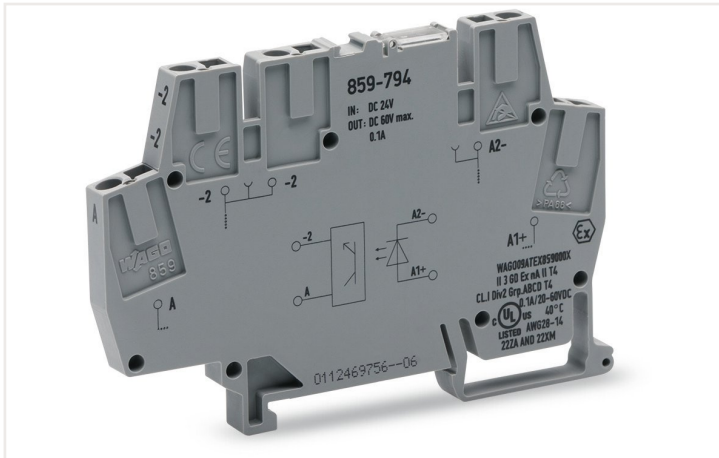


Data sheet | Item number: 859-794

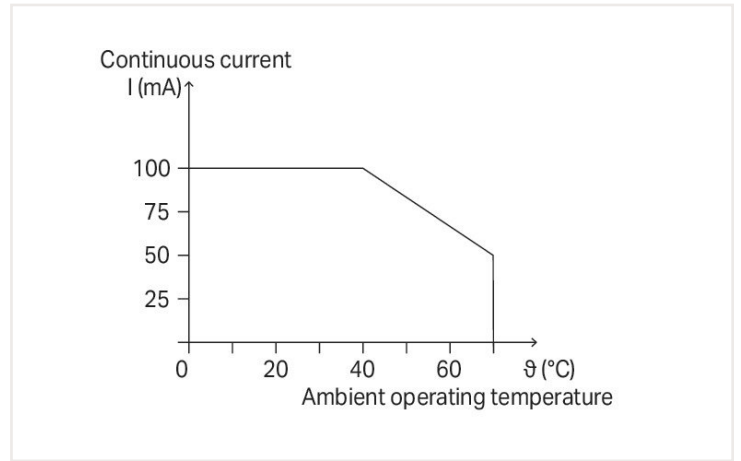
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 9 ... 60 VDC; Limiting continuous current: 0.1 A; Railway; Module width: 6 mm; gray



<https://www.wago.com/859-794>



Dimensions in mm



Current-carrying capacity curve

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

Control circuit

Nominal input voltage U_N	DC 24 V
Input voltage range (low level)	DC 0 ... 5 V
Input voltage range (high level)	DC 16 ... 30 V
Nominal input current at U_N	4.2 mA

Load circuit

Circuit type	2-wire connection
Limiting continuous current	0.1 A
Output voltage range	DC 9 ... 60 V
Voltage drop	≤ 2 VDC
Leakage current at rated voltage	≤ 25 μ A
Turn-on time	≤ 20 μ s
Turn-off time	≤ 120 μ s
Switching frequency	≤ 1.5 kHz

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)	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 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	0.313 MJ
Weight	17.7 g

Environmental requirements

Ambient temperature (operation at U _N)	-40 ... 70 °C
Surrounding air temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{surrounding air} + 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 50121-3-2 EN 61373 UL 508
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Commercial data

Product Group	6 (Interface Electronics)
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)	10 Stück
Packaging type	Box
Country of origin	CN
GTIN	4066966278989
Customs tariff number	85365005000

Approvals and certificates

General approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC_Certificate_RU_C- DE.AM02.B.00115_19
UL UL International Nether- lands B.V. (ORDINARY LO- CATIONS)	UL 508	E175199 Sec.4

Approvals for hazardous areas



Approval	Standard	Certificate name
CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	ANSI/ISA 12.12.01	E198726

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 859-794



Documentation

Bid Text			
859-794	19.02.2019	xml 3.86 KB	↓
859-794	20.02.2019	docx 15.42 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 859-794

CAE data
EPLAN Data Portal 859-794
WSCAD Universe 859-794
ZUKEN Portal 859-794

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 In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; 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.: [248-502](#)

Mini-WSB marking card; as card; MARKED; 1 ... 10 (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



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



1.1.4.2 Marking devices



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

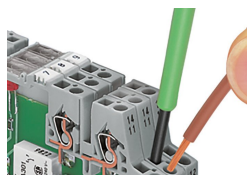


Item no.: 210-720

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