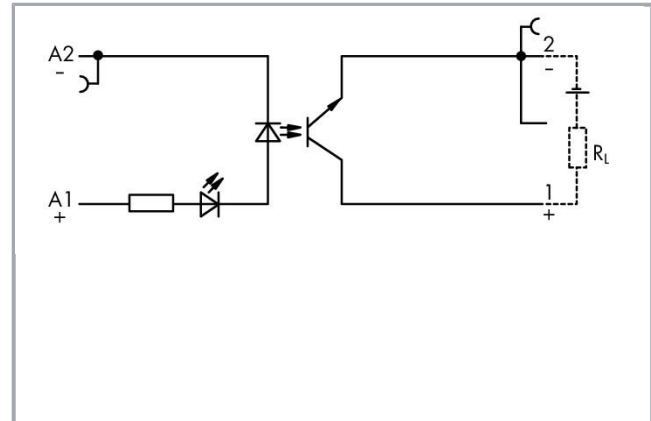
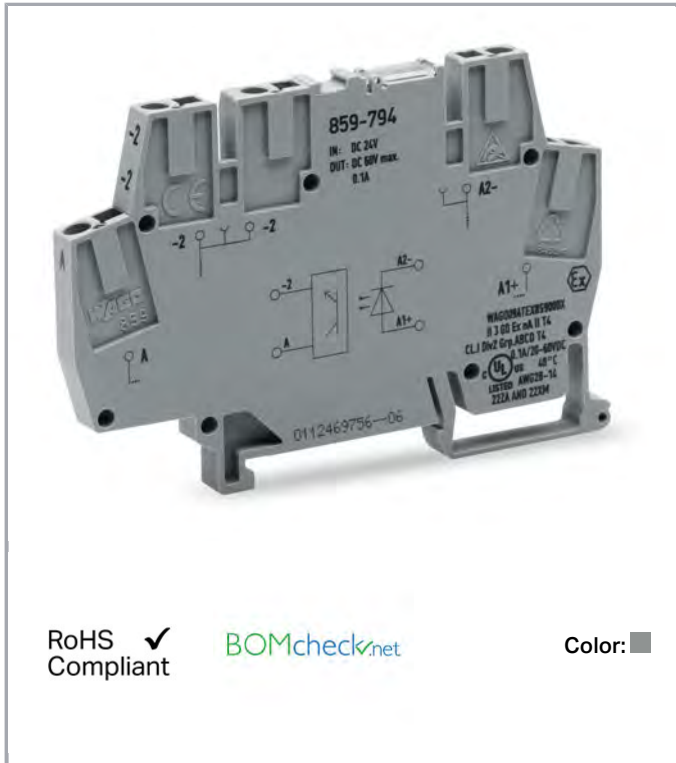


Data sheet | Item number: 859-794

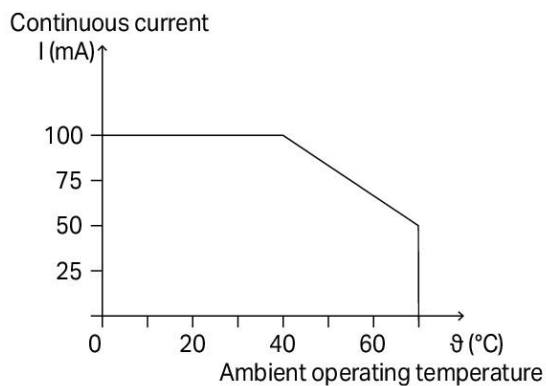
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 24 VDC; Limiting continuous current: 0.1 A; Module width: 6 mm; gray



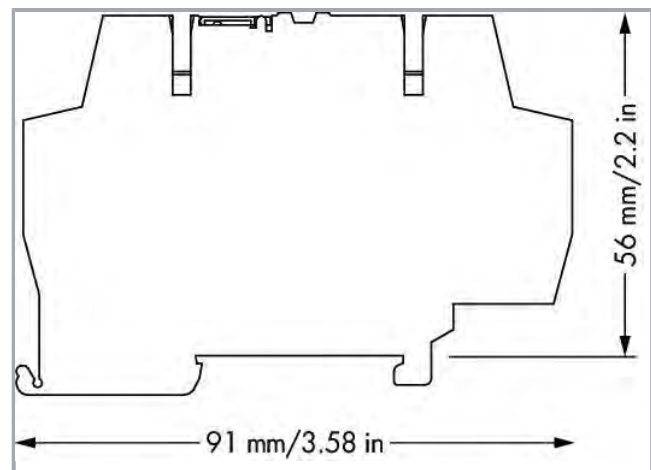
RoHS
Compliant

BOMcheck.net

Color: ■



Current-carrying capacity curve



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

Item description

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.

Data

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 at output (max.)	$\leq$ DC 2 V
Leakage current at rated voltage	$\leq$ 25 μ A
Turn-on time	$\leq$ 20 μ s
Turn-off time	$\leq$ 120 μ s
Switching frequency	$\leq$ 1,5 kHz

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 (adjacent devices)	Reinforced insulation (safe isolation)

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

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
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch

Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch

Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

Material Data

Color	gray
Fire load	0.478 MJ
Weight	18.4 g

Environmental Requirements

Surrounding air temperature (operation at U_N)	-40 ... 70 °C
Surrounding air temperature (storage)	-40 ... 70 °C
Processing temperature	-25 ... +50 °C

Standards and specifications

Standards/specifications	EN 60664-1; EN 61000-6-2; EN 61000-6-3; EN 50121-3-2; EN 61373; UL 508
--------------------------	--

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4055143606325
Customs tariff number	85365005000

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

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Counterpart

Compatible products

Marking accessories

	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.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
	Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

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

**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item no.: 210-110**

Fiber-tip pen

**Item no.: 248-501**

Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card

**Item no.: 248-501/000-002**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

**Item no.: 248-501/000-005**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

**Item no.: 248-501/000-012**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

**Item no.: 248-502**

Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item no.: 248-502/000-024**

Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet

**Item no.: 248-503**

Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

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


Item no.: 248-503/000-024

Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; violet


Item no.: 248-504

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white


Item no.: 248-504/000-024

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; violet


Item no.: 248-505/000-024

Mini-WSB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; violet


Item no.: 248-506

Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

check

Item no.: 859-500

Test pin; 1 mm Ø; with solder connection for test wire

End plate

Item no.: 859-525

End and intermediate plate; 1 mm thick; gray

tools

Item no.: 210-720

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

Jumper

Item no.: 859-402

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; light gray


Item no.: 859-402/000-005

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; red


Item no.: 859-402/000-006

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; blue


Item no.: 859-402/000-029

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; yellow


Item no.: 859-403

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; light gray


Item no.: 859-403/000-005

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; red

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



Item no.: 859-403/000-006

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; blue



Item no.: 859-403/000-029

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; yellow



Item no.: 859-404

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; light gray



Item no.: 859-404/000-005

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; red



Item no.: 859-404/000-006

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; blue



Item no.: 859-404/000-029

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; yellow



Item no.: 859-405

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; light gray



Item no.: 859-405/000-005

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; red



Item no.: 859-405/000-006

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; blue



Item no.: 859-405/000-029

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; yellow



Item no.: 859-406

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; light gray



Item no.: 859-406/000-005

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; red



Item no.: 859-406/000-006

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; blue



Item no.: 859-406/000-029

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; yellow

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

**Item no.: 859-407**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; light gray

**Item no.: 859-407/000-005**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; red

**Item no.: 859-407/000-006**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; blue

**Item no.: 859-407/000-029**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; yellow

**Item no.: 859-408**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; light gray

**Item no.: 859-408/000-005**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; red

**Item no.: 859-408/000-006**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; blue

**Item no.: 859-408/000-029**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; yellow

**Item no.: 859-409**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; light gray

**Item no.: 859-409/000-005**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; red

**Item no.: 859-409/000-006**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; blue

**Item no.: 859-409/000-029**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; yellow

**Item no.: 859-410**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; light gray

**Item no.: 859-410/000-005**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; red

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



Item no.: 859-410/000-006
Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; blue



Item no.: 859-410/000-029
Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; yellow

ferrule



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

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; green

Downloads

Documentation

Instruction Leaflet

Relay modules, Optocoupler modules

V 1.2.0
Aug 30, 2019

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

CAD/CAE-Data

CAD data

2D/3D Models 859-794

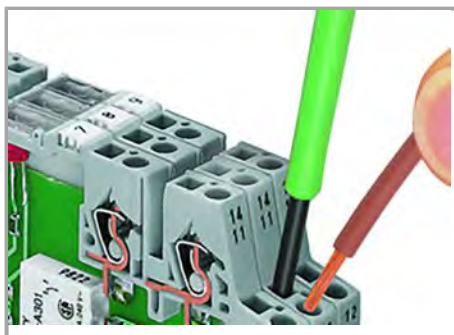
CAE data

EPLAN Data Portal 859-794

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

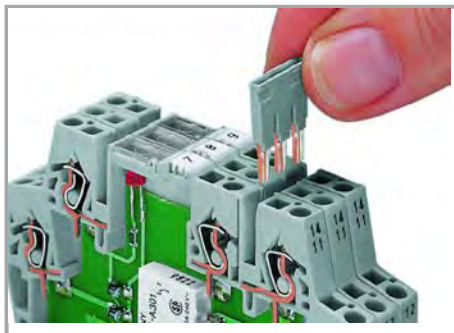
Installation Notes

Conductor termination



Connection of conductor

Commoning



Easy commoning using adjacent jumpers

Marking

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



Marking using miniature WSB quick marking card

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