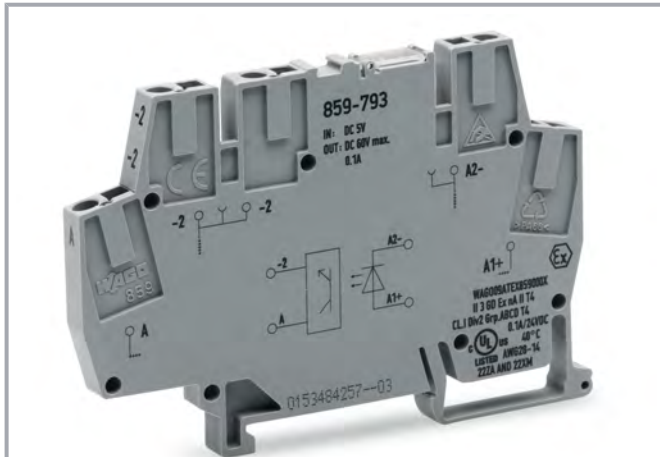


Data sheet | Item number: 859-793

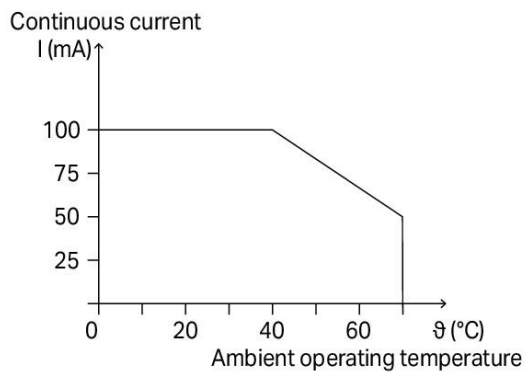
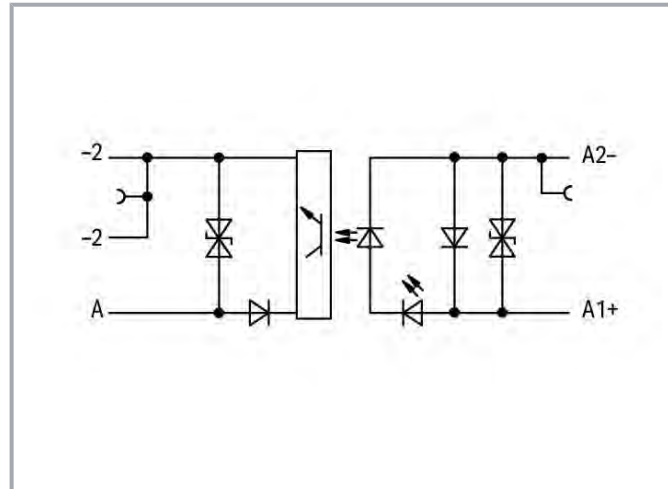
Optocoupler module; Nominal input voltage: 5 VDC; Output voltage range: 3 ... 60 VDC; Limiting continuous current: 0.1 A; 2-wire connection; Path; Module width: 6 mm; gray



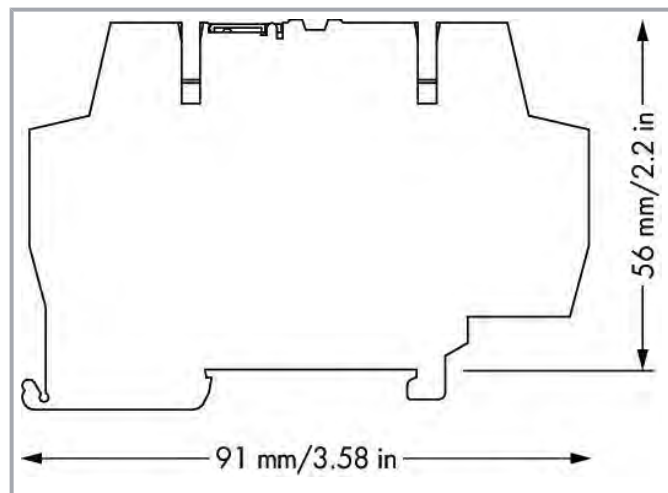
RoHS Compliant

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 5 V
Input voltage range (low level)	DC 0 ... 0.8 V
Input voltage range (high level)	DC 2 ... 6.25 V
Nominal input current at U_N	7.5 mA

Load circuit

Circuit type	2-wire connection
Limiting continuous current	0.1 A
Nominal output voltage [V]	DC 3 ... 60 V
Voltage drop at output (max.)	$\leq$ DC 2.5 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
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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

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



Insulation type (adjacent devices)

Reinforced insulation (safe isolation)

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

Physical 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
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Material data

Color	gray
Fire load	0.313 MJ
Weight	17.7 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
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)
Packaging type	BOX

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

Country of origin	DE
GTIN	4055143606271
Customs tariff number	8541500080

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCCEX CQST/CNEx	CNCA-C23-01	2021312304000982
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	UL 508	E198726 Sec.3

Compatible products

tools



Item no.: 210-720

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

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

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

	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
	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

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

Jumper



Item no.: 859-402

Push-in type jumper bar; Light gray; Insulated; 18 A; 2-position



Item no.: 859-402/000-005

Jumper; for jumper slot; 2-way; insulated; red



Item no.: 859-402/000-006

Jumper; for jumper slot; 2-way; insulated; blue



Item no.: 859-402/000-029

Jumper; for jumper slot; 2-way; insulated; yellow



Item no.: 859-403

Push-in type jumper bar; Light gray; Insulated; 18 A; 3-position



Item no.: 859-403/000-005

Jumper; for jumper slot; 3-way; insulated; red



Item no.: 859-403/000-006

Jumper; for jumper slot; 3-way; insulated; blue



Item no.: 859-403/000-029

Jumper; for jumper slot; 3-way; insulated; yellow

Item no.: 859-404

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

 Push-in type jumper bar; Light gray; Insulated; 18 A; 4-position

Item no.: 859-404/000-005

Jumper; for jumper slot; 4-way; insulated; red

Item no.: 859-404/000-006

Jumper; for jumper slot; 4-way; insulated; blue

Item no.: 859-404/000-029

Jumper; for jumper slot; 4-way; insulated; yellow

Item no.: 859-405

Push-in type jumper bar; Light gray; Insulated; 18 A; 5-position

Item no.: 859-405/000-005

Jumper; for jumper slot; 5-way; insulated; red

Item no.: 859-405/000-006

Jumper; for jumper slot; 5-way; insulated; blue

Item no.: 859-405/000-029

Jumper; for jumper slot; 5-way; insulated; yellow

Item no.: 859-406

Push-in type jumper bar; Light gray; Insulated; 18 A; 6-position

Item no.: 859-406/000-005

Jumper; for jumper slot; 6-way; insulated; red

Item no.: 859-406/000-006

Jumper; for jumper slot; 6-way; insulated; blue

Item no.: 859-406/000-029

Jumper; for jumper slot; 6-way; insulated; signal yellow

Item no.: 859-407

Push-in type jumper bar; Light gray; Insulated; 18 A; 7-position

Item no.: 859-407/000-005

Jumper; for jumper slot; 7-way; insulated; red

Item no.: 859-407/000-006

Jumper; for jumper slot; 7-way; insulated; blue

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

	Item no.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow
	Item no.: 859-408 Push-in type jumper bar; Light gray; Insulated; 18 A; 8-position
	Item no.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red
	Item no.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue
	Item no.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow
	Item no.: 859-409 Push-in type jumper bar; Light gray; Insulated; 18 A; 9-position
	Item no.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red
	Item no.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated; blue
	Item no.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated; yellow
	Item no.: 859-410 Push-in type jumper bar; Light gray; Insulated; 18 A; 10-position
	Item no.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red
	Item no.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue
	Item no.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow
ferrule	
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white

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

**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**End plate****Item no.: 859-525**

End and intermediate plate; 1 mm thick; Gray

check**Item no.: 859-500**

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

Downloads**Documentation****Bid Text**

859-793	Feb 20, 2019	docx
docx - Datei		15.6 kB

859-793	Feb 19, 2019	xml
X81 - Datei		4.0 kB

Instruction Leaflet

Relay modules, Optocoupler modules	V 1.2.0	pdf
	Aug 30, 2019	2.2 MB

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf
		265.8 kB

CAD files**CAD data**

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

2D/3D Models 859-793

CAE data

EPLAN Data Portal 859-793

WSCAD Universe 859-793

ZUKEN Portal 859-793

Environmental Product Compliance

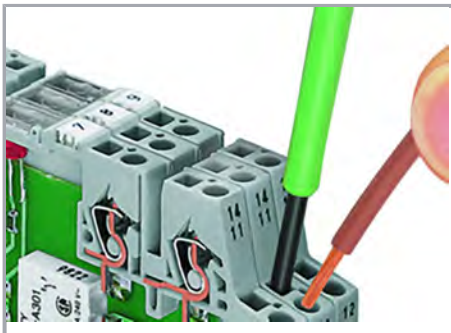
Compliance Search

Environmental Product Compliance 859-793

Optocoupler module; Nominal input voltage: 5 VDC; Output voltage range: 3 ... 60 VDC; Limiting continuous current: 0.1 A; 2-wire connection; Path; Module width: 6 mm; gray

Installation Notes

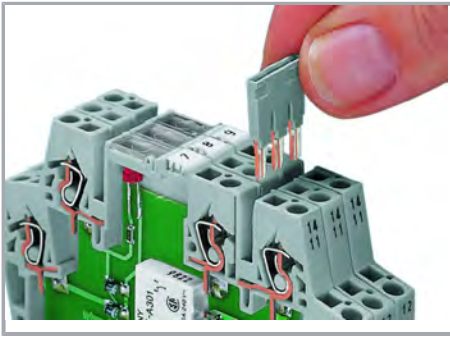
Conductor termination



Conductor termination

Commoning

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



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System

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