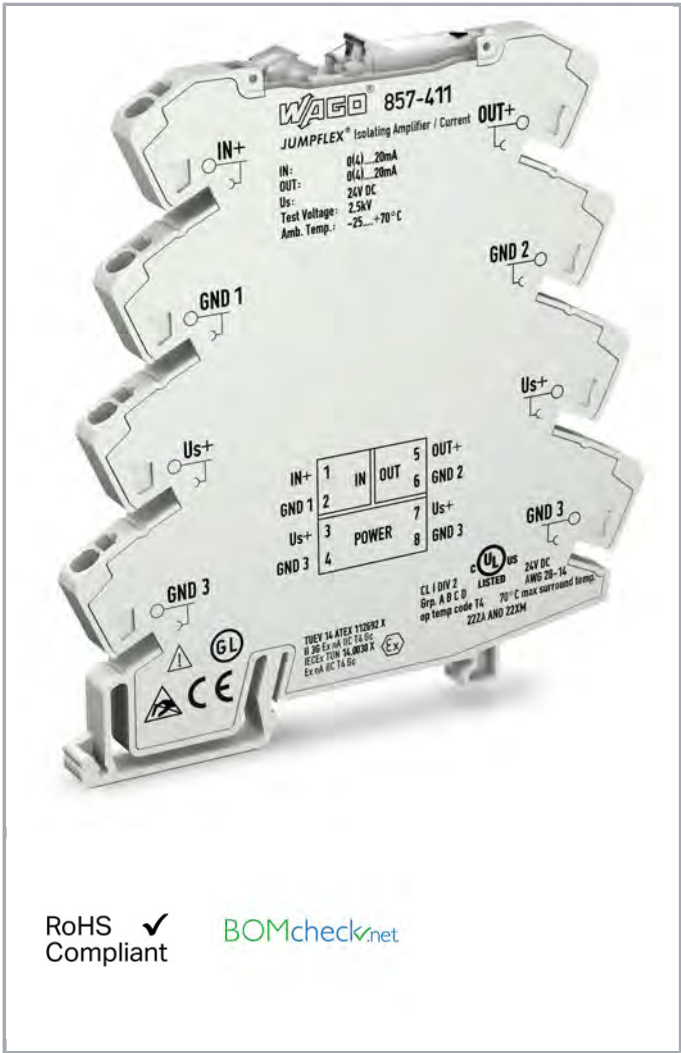


Data sheet | Item number: 857-411

Isolation amplifier; Current input signal; Current output signal; Supply
voltage: 24 VDC; 6 mm module width; 2,50 mm²

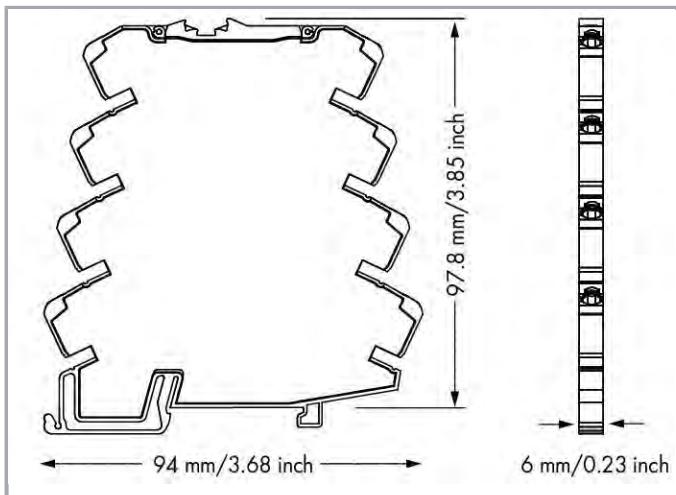


IN+	1	IN	OUT	5	OUT+
GND 1	2			6	GND 2
Us+	3	POWER		7	Us+
GND 3	4			8	GND 3

RoHS
Compliant

BOMcheck.net

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



Item description

Short description:

This pre-configured signal conditioner converts, amplifies, filters and electrically isolates analog standard signals.

Features:

- Input/output: current or voltage signal
- Safe 3-way isolation with 2.5 kV test voltage per EN 61140

Note:

Die Anschlüsse 3 (Us+) und 7 (Us+) sowie 4 (GND 3) und 8 (GND 3) sind intern gebrückt.
Stromtragfähigkeit zwischen Anschluss 3/4 und 7/8 max: 1 A

Data

Technical Data

Configuration

Configuration options	pre-configured
-----------------------	----------------

Input

Input signal type	Electricity
Input signal (current)	0 ... 20 mA; 4 ... 20 mA
Input resistance (current input)	$\leq 50 \Omega$
Input current (max.)	50 mA

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

Output – Analog

Output signal type	Current
Output signal (current)	0 ... 20 mA; 4 ... 20 mA
Load impedance (current output)	$\leq 600 \Omega$

Signal processing

Limit frequency	100 Hz
Step response (typ.)	3,5 ms

Measurement error

Transmission error (typ.)	$\leq 0.1 \%$ of upper-range value
Temperature coefficient	$\leq 0.01 \%/K$

Power supply

Power supply type	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	$\pm 30 \%$
Power consumption at nominal supply voltage	$\leq 25 \text{ mA}$

Safety and protection:

Test voltage (input/output/supply)	AC 2,5 kV; 50 Hz; 1 min
Protection type	IP20

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0,08 ... 2,5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0,34 ... 2,5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97,8 mm / 3.85 inch
Depth	94 mm / 3.701 inch

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

Mechanical data

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

Material Data

Fire load	0.585 MJ
Weight	36.1 g

Environmental Requirements

Surrounding air temperature (operation)	-25 ... 70 °C
Surrounding air temperature (storage)	-40 ... 85 °C

Standards and specifications

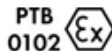
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	bag
Country of origin	DE
GTIN	4045454471224
Customs tariff number	85437090300

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0030_X
	IECEX TUEV Nord Cert GmbH	EN 60079-0	TÜV_14_ATEX_112692_X
	UL UL International Germany GmbH (HAZARDOUS)	ANSI/ISA 12.12.01	E198726 Sec.4

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



LOCATIONS)

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	BV Bureau Veritas S.A.	-	40179_A0
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00001D1
	NK Nippon Kaiji Kyokai	-	TA17255M
	PRS Polski Rejestr Statków	-	TE/2186 /880590/18

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

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

Jumper

	Item no.: 281-482 Comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray
	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
	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

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



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



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

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



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



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

transfer module



Item no.: 857-980
Interface adapter; 16-pole; analog

Marking accessories



Item no.: 2009-110
Marking strips; on reel; not stretchable; plain; snap-on type; white



Item no.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item no.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item no.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

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

**Item no.: 2009-115/000-007**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

**Item no.: 2009-115/000-012**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item no.: 2009-115/000-017**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

**Item no.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item no.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

**Item no.: 793-501/000-002**

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

**Item no.: 793-501/000-005**

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

**Item no.: 793-501/000-006**

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

**Item no.: 793-501/000-007**

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

**Item no.: 793-501/000-012**

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

**Item no.: 793-501/000-017**

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

**Item no.: 793-501/000-023**

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

**Item no.: 793-501/000-024**

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

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

	Item no.: 793-502 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white
	Item no.: 793-502/000-002 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; yellow
	Item no.: 793-502/000-005 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; red
	Item no.: 793-502/000-006 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; blue
	Item no.: 793-502/000-007 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; gray
	Item no.: 793-502/000-012 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; orange
	Item no.: 793-502/000-017 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; light green
	Item no.: 793-502/000-023 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; green
	Item no.: 793-502/000-024 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet
	Item no.: 793-503 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white
	Item no.: 793-503/000-002 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; yellow
	Item no.: 793-503/000-005 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; red
	Item no.: 793-503/000-006 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; blue
	Item no.: 793-503/000-007

Subject to changes.



WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; gray



Item no.: 793-503/000-012

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; orange



Item no.: 793-503/000-017

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; light green



Item no.: 793-503/000-023

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; green



Item no.: 793-503/000-024

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



Item no.: 793-504

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



Item no.: 793-504/000-002

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; yellow



Item no.: 793-504/000-005

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; red



Item no.: 793-504/000-006

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; blue



Item no.: 793-504/000-012

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; orange



Item no.: 793-504/000-017

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; light green



Item no.: 793-504/000-023

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; green



Item no.: 793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

Item no.: 793-505/000-005

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

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



red



Item no.: 793-505/000-006

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; blue



Item no.: 793-505/000-007

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; gray



Item no.: 793-505/000-012

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; orange



Item no.: 793-506

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



Item no.: 793-506/000-005

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; red



Item no.: 793-506/000-006

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; blue



Item no.: 793-506/000-012

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; orange



Item no.: 793-506/000-017

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; light green



Item no.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item no.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item no.: 793-5501/000-005

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item no.: 793-5501/000-006

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item no.: 793-5501/000-007

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on

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



type; gray



Item no.: 793-5501/000-012

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item no.: 793-5501/000-014

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



Item no.: 793-5501/000-017

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item no.: 793-5501/000-023

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item no.: 793-5501/000-024

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item no.: 793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item no.: 793-566/000-002

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; yellow



Item no.: 793-566/000-005

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; red



Item no.: 793-566/000-006

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; blue



Item no.: 793-566/000-007

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; gray



Item no.: 793-566/000-012

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; orange



Item no.: 793-566/000-017

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; light green

Item no.: 793-566/000-023

Subject to changes.



WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; green



Item no.: 793-566/000-024

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; violet

assembling



Item no.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item no.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item no.: 249-197

Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

General accessories



Item no.: 857-979

Supply and through module; 2,50 mm²

power supply



Item no.: 787-2852

Switched-mode power supply; for JUMPFLEX® Signal Conditioners; 1-phase; 24 VDC output voltage; 1 A output current; -

tools



Item no.: 210-720

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

Downloads

Documentation

Instruction Leaflet

Messumformer und Trennverstärker

0(4)...20 mA / 0(4)...20 mA

V 1.2.1

Jan 21, 2020

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

CAD/CAE-Data

CAD data

2D/3D Models 857-411

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

CAE data

EPLAN Data Portal 857-411

WSCAD Universe 857-411

Installation Notes

Commoning



Commoning, not discrete wiring – same outline allows the use of a single in-line, push-in jumper

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