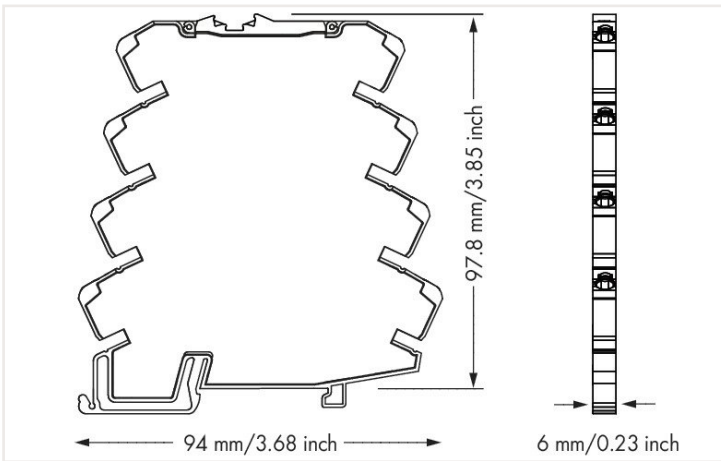
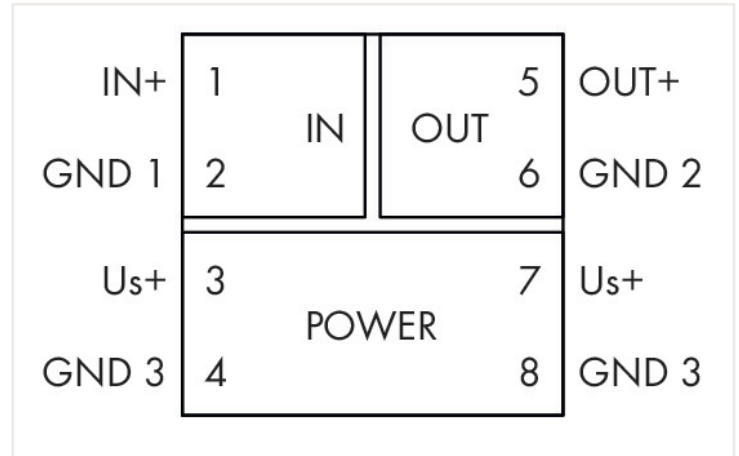


Data sheet | Item number: 857-411

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

<https://www.wago.com/857-411>



Dimensions in mm

Short description:

WAGO's 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

Notes

Note: The 3 (Us+), 7 (Us+), 4 (GND 3) and 8 (GND 3) connections are internally commoned. Current carrying capacity between 3/4 and 7/8 connections: 1 A (max.)

Technical data

Configuration		Input	
Configuration options	pre-configured	Input signal type	Current
		Input signal (current)	0 ... 20 mA; 4 ... 20 mA
		Input resistance (current input)	≤ 50 Ω
		Input current (max.)	50 mA

Output – analog

Output signal type	Current
Output signal (current)	0 ... 20 mA; 4 ... 20 mA
Load impedance (current output)	≤ 600 Ω

Signal processing

Limit frequency	100 Hz
Step response (typ.)	3.5 ms

Measurement error

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

Supply

Power supply type	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 25 mA

Safety and protection

Test voltage

Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
------------------------------------	-------------------------

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

Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches

Mechanical data

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

Material data

Fire load	0.585 MJ
Weight	36.1 g

Environmental requirements

Ambient temperature (operation at U_N)	-25 ... 70 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DNV

Commercial data

Product Group	6 (Interface Electronics)
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 8.0	EC002653
ETIM 7.0	EC002653
PU (SPU)	1 Stück
Packaging type	Bag
Country of origin VKOrg Germany	DE
GTIN	4045454471224
Customs tariff number VKOrg Germany	85437090300

Approvals and certificates

General approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Approvals for marine applications



Approval	Standard	Certificate name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00001D1
PRS Polski Rejestr Statków	-	TE/2186/880590/18

Approvals for hazardous areas



Approval	Standard	Certificate name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TÜV_14_ATEX_112692_X (II 3 G Ex nA IIC T4 Gc)
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000210 (Ex nA IIC T4 Gc)
EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B.00144/19 (2 Ex nA IIC T4 Gc X)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0030_X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726

Downloads




Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 857-411

Documentation

Bid Text

857-411	18.07.2019	xml 5.25 KB	
857-411	18.07.2019	docx 17.87 KB	
857-411	18.07.2019	pdf 72.03 KB	

Instruction Leaflet



Messumformer und Trennverstärker	V 1.2.1 21.01.2020	pdf 1589.43 KB	
-------------------------------------	-----------------------	-------------------	---

CAD/CAE-Data

CAD data

2D/3D Models 857-411	
----------------------	---

CAE data

EPLAN Data Portal 857-411	
WSCAD Universe 857-411	
ZUKEN Portal 857-411	

1 Compatible products

1.1 Optional accessories

1.1.1 Installation

1.1.1.1 Mounting accessories

**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**Item no.: 249-116**Screwless end stop; 6 mm wide; for DIN-
rail 35 x 15 and 35 x 7.5; gray

1.1.2 Interface module

1.1.2.1 Interface adapters

**Item no.: 857-980**

Interface adapter; 16-pole; analog

1.1.3 Jumper

1.1.3.1 Jumper



Item no.: 281-482

Jumper; 2-way; insulated; gray



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.: 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.: 793-502

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



Item no.: 793-566

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



Item no.: 793-503

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

1.1.4.1 Marker



Item no.: 793-504

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



Item no.: 793-505

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



Item no.: 793-506

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



Item no.: 793-501

WMB marking card; as card; 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

1.1.4.2 Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.5 Power supply

1.1.5.1 Power supply unit



Item no.: 787-2852

Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current

1.1.6 Terminal blocks

1.1.6.1 Supply module



Item no.: 857-979

Supply and through module

1.1.6.2 Through terminal block



Item no.: 857-979

Supply and through module

1.1.7 Tool

1.1.7.1 Operating tool

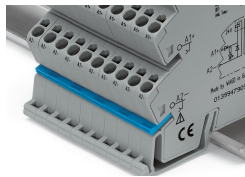


Item no.: 210-720

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

Installation notes

Commoning



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