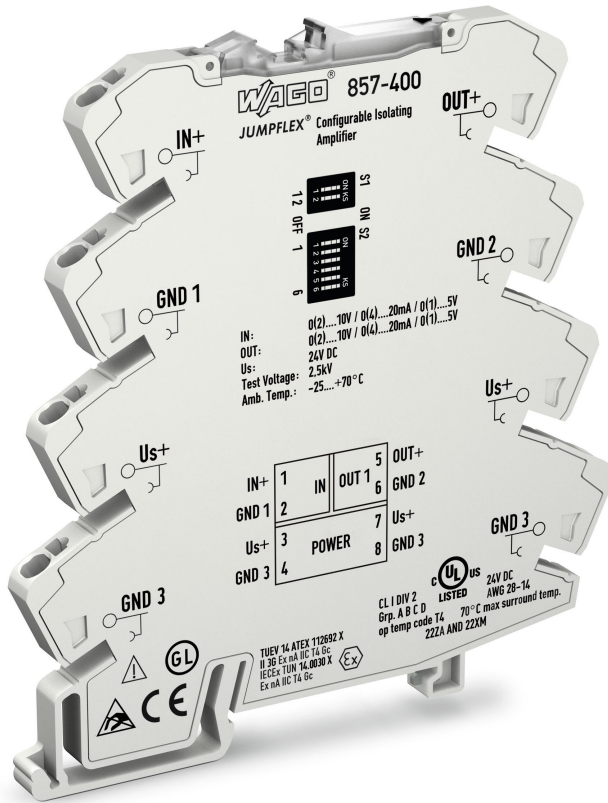


Isolation amplifier; Current and voltage input signal; Current and voltage output signal; Zero/span adjustment; Configuration via DIP switch; Supply voltage: 24 VDC; 6 mm module width

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

Item description

Short description: The configurable isolation amplifier converts, amplifies, filters and electrically isolates analog standard signals.

Features: Zero/span adjustment across the entire measuring range; Switching between measuring ranges is calibrated; Switchable max. operating frequency; Safe 3-way isolation with 2.5 kV test voltage acc. to EN 61140

Data

Technical Data

Configuration

Configuration options

DIP switches

Input

Input signal type	Voltage Current
Input signal voltage	0 ... 5 V; 1 ... 5 V; 0 ... 10 V; 2 ... 10 V (calibrated configurable signals)
Input signal, current	0 ... 20 mA; 4 ... 20 mA (calibrated configurable signals)
Input resistance (input/current)	$\leq 50 \Omega$
Input resistance (input/voltage)	$\geq 1 M\Omega$
Zero/span adjustment	$\pm 3\%$ of the full scale value

Output

Output signal type	Current Voltage
Output signal voltage	0 ... 5 V; 1 ... 5 V; 0 ... 10 V; 2 ... 10 V (calibrated switchable)
Output signal current	0 ... 20 mA; 4 ... 20 mA; 0 ... 10 mA; 2 ... 10 mA (calibrated switchable)
Load impedance (output/voltage)	$\geq 2 k\Omega$
Load impedance (output/current)	$\leq 600 \Omega$

Signal processing

Max. operating frequency	100 Hz / 5 kHz (configurable via DIP switch)
Step response	3.5 ms (100 Hz); 100 μ s (5 kHz)

Measurement error

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

Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	$\pm 30\%$
Current consumption at supply voltage	≤ 25 mA

Safety and protection:

Test voltage (input/output/supply)	2.5 kV AC; 50 Hz; 1 min
Degree of protection	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-35 rail	97.8 mm / 3.85 Inch
Depth	94 mm / 3.701 Inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Color	lichtgrau
Weight	36.8 g

Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-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

Country of origin	DE
GTIN	4045454471293
Product Group	6 (Interface Electronics)

Ex-Approvals

Logo	Approval	Certificate name
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	E198726 Sec.4

Ship Approvals

Logo	Approval	Certificate name
	BV Bureau Veritas S.A.	40179_A0
	DNV GL Det Norske Veritas, Germanischer Lloyd	TAA0001D1
	NK Nippon Kaiji Kyokai	TA17255M
	PRS Polski Rejestr Statkow	TE/1989/880590/13

UL-Approvals

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

Product family

JUMPFLEX Isolation Amplifiers
[Show all products from the family.](#)

Subject to changes.