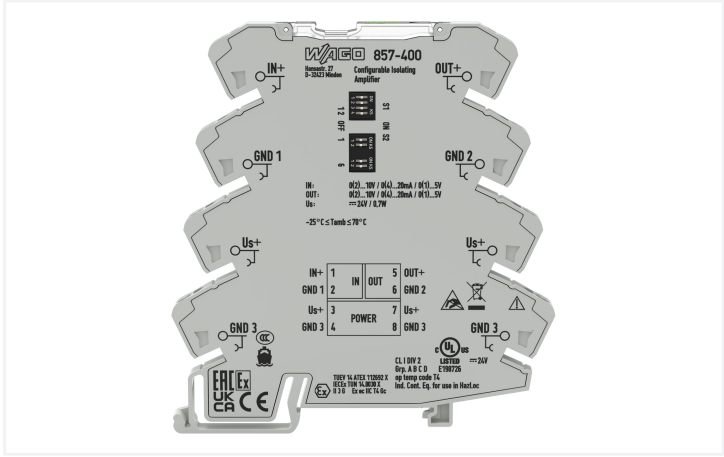
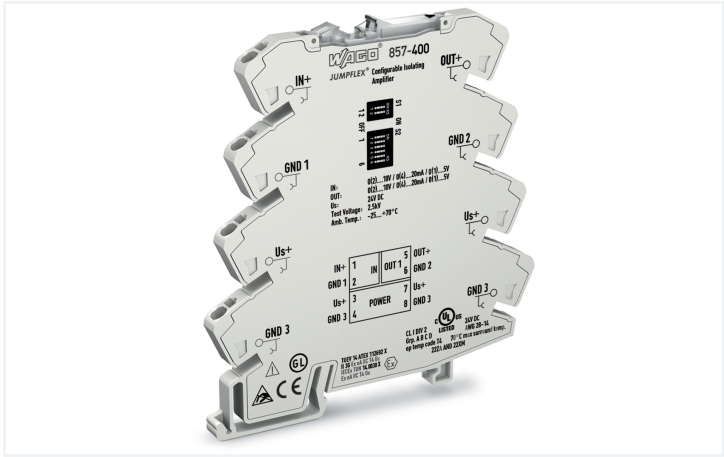


Data Sheet | Item Number: 857-400

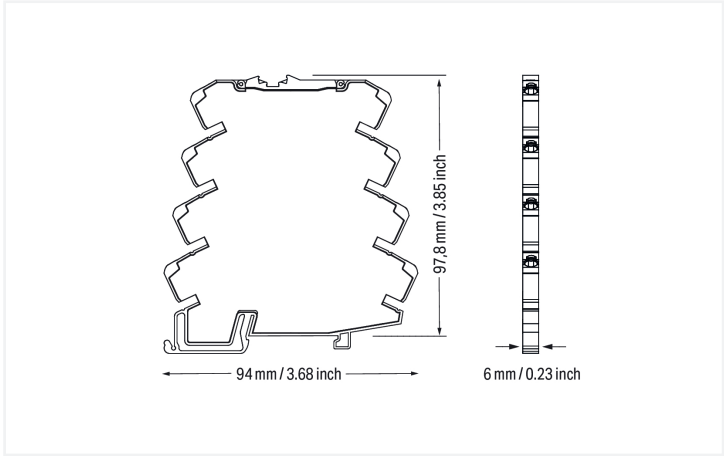
Isolation amplifier; Current and voltage input signal; Current and voltage output signal;
Zero/span adjustment; Configuration via DIP switch; Supply voltage: 24 VDC; 6 mm mod-
ule width; 2,50 mm²



<https://www.wago.com/857-400>



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



DIP Switch S1 (2-40V)		DIP Switch S2 (16-40V)		Max. Operating Frequency	
Input Signal	Output Signal	Input Signal	Output Signal	Input Signal	Output Signal
1	2	1	2	1	2
0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA
0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V
2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V
0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V
1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V
0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA
0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V
2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V
0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V
1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V
0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA	0 - 20 mA
0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V
2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V	2 - 10 V
0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V
1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V	1 - 5 V

Short description:

WAGO's configurable signal conditioner converts, amplifies, filters and electrically isolates standard analog signals.

Features:

- Calibrated measurement range switching
- Switchable limit frequency



Notes	
Safety Information	Input and output must be safely isolated from any hazardous live parts!
Note	Use shielded signal cables! Only use shielded signal cables for analog input and output signals. This ensures the device maintains its specified accuracy and immunity to interference, even when external disturbances affect the signal cable. 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	DIP switch Potentiometer
Input signal type	Voltage Current
Input signal (voltage)	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V (calibrated, switchable)
Input signal (current)	0 ... 20 mA 4 ... 20 mA (calibrated, switchable)
Input resistance (current input)	≤ 50 Ω
Input resistance (voltage input)	≥ 100 kΩ
Input current (max.)	50 mA
Input voltage (max.)	30 V
Zero/span adjustment	±3 % of upper range value

Output (analog)	
Output signal type	Current Voltage
Output signal (voltage)	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V (calibrated (as delivered), switchable)
Output signal (current)	0 ... 20 mA 4 ... 20 mA 0 ... 10 mA 2 ... 10 mA (calibrated (as delivered), switchable)
Load impedance (voltage output)	≥ 2 kΩ
Load impedance (current output)	≤ 600 Ω

Signal Processing	
Limit frequency	100 Hz / 5 kHz (configurable via DIP switch)
Step response (typ.)	3.5 ms (100 Hz) 100 μs (5 kHz)

Measurement Error	
Transmission error (typ.)	≤ 0.1 % of upper-range value
Transmission error (max.)	≤ 0.2 % of upper-range value
Transmission error (under interference)	≤ 15 % of upper-range value
Temperature coefficient	≤ 0.01 %/K

Power Supply	
Power supply type	24 VDC (SELV)
Nominal supply voltage U _s	24 VDC
Supply voltage range	±30 %
Current consumption (default)	≤ 30 mA
Current consumption (max.)	≤ 40 mA (I _{out} 20 mA; Load impedance: 600 Ω; U _s : 16.8 V)

Safety and protection	
Rated Voltage	300 V
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	3 kVAC; 50 Hz; 1 min

Insulation coordination

Overvoltage category	II
Pollution degree	2
Insulation type (input/analog output/supply)	Functional insulation
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)

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 inches

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
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Material data

Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.489 MJ
Weight	43 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 25 K)
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	EN 61010-1 DNV UL 508



Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454471293
Customs tariff number	85437090300

Product Classification	
UNSPSC	39121008
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 9.0	EC002653
ETIM 10.0	EC002653
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(c)-I
SCIP notification number (Austria)	61dc3753-5e53-4bb5-9a50-f5aa17855efd
SCIP notification number (Belgium)	c0cac427-821b-4fee-853d-e625623f7640
SCIP notification number (Bulgaria)	b870ee7e-96a6-4693-a71e-ca604ee0becd
SCIP notification number (Czech Republic)	e7e38323-7816-4bca-823d-3b7279f03a44
SCIP notification number (Denmark)	6601305f-f71c-49d0-b0a8-1bb00e9b10a9
SCIP notification number (Finland)	f0f87a08-b417-4804-bef3-c3544e6ec13a
SCIP notification number (France)	7fece020-0230-4fff-8cee-bf52a792d4d6
SCIP notification number (Germany)	197024b5-9ab4-47ce-ad91-4e9856e8eff0
SCIP notification number (Hungary)	32b8cc06-78ff-4b21-86dd-dbc709b88954
SCIP notification number (Italy)	1a3b35dc-ce7d-420c-9c23-318120ddc4e0
SCIP notification number (Netherlands)	b772c60e-9cbe-49e9-8f7d-522704ecfa81
SCIP notification number (Poland)	dd653e15-62aa-4136-bfb4-6c245822ff06
SCIP notification number (Romania)	7347c6f8-21e0-4fd4-ab8f-e32d7983d5cc
SCIP notification number (Sweden)	dd90bd68-e44b-432d-98d3-fe7c80da2930

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 857-400

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Documentation				
Manual		Bid Text		
WAGO Isolating Amplifiers		857-400	18.07.2019	xml 6.10 KB
				↓
		857-400	18.07.2019	docx 19.31 KB
				↓
		857-400	18.07.2019	pdf 75.55 KB
				↓

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 140.99 KB	↓
Messumformer und Trennverstärker	V 2.0.0 16.08.2022	pdf 2246.01 KB	↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 857-400	EPLAN Data Portal 857-400
↓	↓
	WSCAD Universe 857-400
	↓
	ZUKEN Portal 857-400
	↓