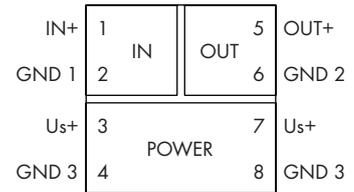
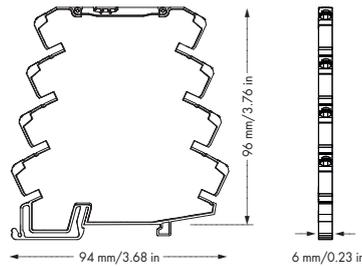




Configuration via:



DIP Switches

**Short description:**

The configurable 857-400 Isolation Amplifier is used to convert, amplify, filter and electrically isolate analog standard signals.

**Characteristics:**

- Zero/span adjustment across the entire measuring range
- Calibrated scale switching
- Switchable max. operating frequency
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

**Technical Data**

<b>Configuration:</b>	
Configuration	DIP switches
<b>Input:</b>	
Input signal	0 ... 20 mA, 4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 2 ... 10 V, 1 ... 5 V (calibrated switchable)
Input resistance	≤ 50 Ω (In = mA) ≥ 100 kΩ (In = V)
<b>Output:</b>	
Output signal	0 ... 20 mA, 4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 2 ... 10 V, 1 ... 5 V (calibrated switchable)
Load impedance	600 Ω (Out = mA) 2 kΩ (Out = V)
<b>General specifications:</b>	
Voltage supply $V_s$	24V DC
Supply voltage range	16.8 V ... 31.2 V
Current consumption at 24 V DC	≤ 25 mA
Max. operating frequency	100 Hz / > 5 kHz (switchable via DIP switch)
Response time ( $T_{10/90}$ )	< 3.5 ms / < 100 μs
Transmission error	≤ 0.1 % of the full scale value
Temperature coefficient	≤ 0.01 % / K
Zero/span adjustment	± 3% of upper range value

**Description**

**JUMPFLEX® transducers, for DIN 35 rail**  
Isolation amplifier, with zero/span adjustment

**Item No.**

857-400

**Pack. Unit**

1

**Technical Data****Environmental requirements:**

Ambient operating temperature -25 °C ... +70 °C  
Storage temperature -40 °C ... +85 °C

**Safety and protection:**

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

**Connection and type of mounting:**

Wire connection CAGE CLAMP® S  
Cross sections solid:  
0.08 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> / AWG 28 ... 14  
fine-stranded:  
0.34 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> / AWG 22 ... 14  
Strip lengths 9 ... 10 mm / 0.37 in

**Dimensions and weight:**

Dimensions (mm) W x H x L 6 x 96 x 94  
Height from upper-edge of DIN 35 rail  
Weight 36.8 g

**Standards and approvals:**

Conformity marking C E  
UL 508  
ANSI/ISA 12.12.01 Class I, Div. 2, Grp. ABCD, T4  
Shipbuilding

**Accessories**

see pages 268 ... 271

# DIP Switch Adjustability

● = ON

857-400

Dip Switch S1 (2-fold)

Dip Switch S2 (6-fold)

Input Signal		Output Signal					Max. Operating Frequency	
1	2	1	2	3	4	5	6	
●	0 ... 20 mA							0 ... 20 mA
					●			4 ... 20 mA
		●	●					0 ... 10 V
		●	●		●			2 ... 10 V
		●	●	●				0 ... 5 V
		●	●	●	●			1 ... 5 V
●	4 ... 20 mA					●		0 ... 20 mA
								4 ... 20 mA
		●	●				●	0 ... 10 V
		●	●					2 ... 10 V
		●	●	●			●	0 ... 5 V
		●	●	●				1 ... 5 V
●	0 ... 10 V					●		0 ... 20 mA
								4 ... 20 mA
		●	●					0 ... 10 V
		●	●		●			2 ... 10 V
		●	●	●				0 ... 5 V
		●	●	●	●			1 ... 5 V
●	2 ... 10 V					●		0 ... 20 mA
								4 ... 20 mA
		●	●				●	0 ... 10 V
		●	●					2 ... 10 V
		●	●	●			●	0 ... 5 V
		●	●	●				1 ... 5 V
	0 ... 5 V					●		0 ... 20 mA
								4 ... 20 mA
		●	●					0 ... 10 V
		●	●		●			2 ... 10 V
		●	●	●				0 ... 5 V
		●	●	●	●			1 ... 5 V
	1 ... 5 V					●		0 ... 20 mA
								4 ... 20 mA
		●	●				●	0 ... 10 V
		●	●					2 ... 10 V
		●	●	●			●	0 ... 5 V
		●	●	●				1 ... 5 V

### Default Settings

Input	0 ... 20 mA
Output	0 ... 20 mA
Max. Operating Frequency	100 Hz