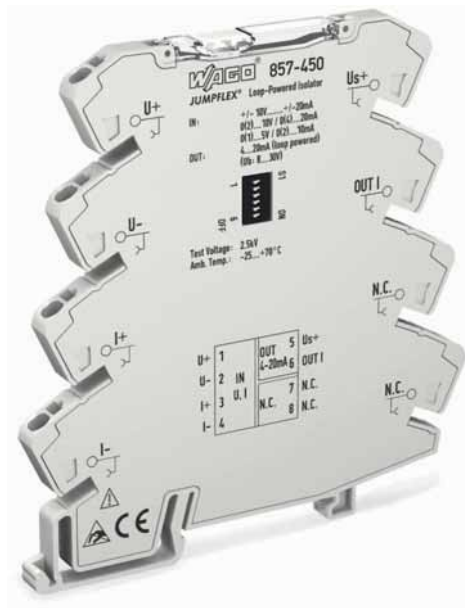
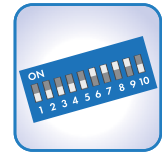
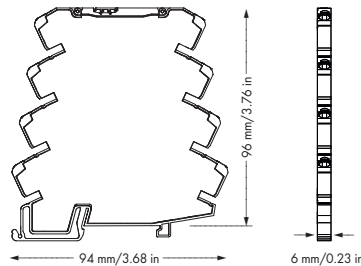




Configuration via:



DIP Switches



U+	1	OUT	5	U _s +
U-	2	IN	6	OUT 1
I+	3	U, I	7	N.C.
I-	4	N.C.	8	N.C.

Short description:

The 857-450 Loop-Powered Isolation Amplifier converts analog, unipolar and bipolar, standard signals. It is also designed to amplify, filter and electrically isolate standard analog signals.

Characteristics:

- No additional supply voltage required
- Zero/span adjustment
- Analog, unipolar and bipolar, standard signals at input
- Calibrated scale switching
- Switchable max. operating frequency
- Safe 2-way isolation with 2.5 kV test voltage to EN 61140

Technical Data**Configuration:**

Configuration DIP switches

Input:

Input signal

Current:

± 5 mA, 0 ... 5 mA,
± 10 mA, 0 ... 10 mA, 2 ... 10 mA,
± 20 mA, 0 ... 20 mA, 4 ... 20 mA

Voltage:

± 1 V, 0 ... 1 V,
± 5 V, 0 ... 5 V, 1 ... 5 V,
± 10 V, 0 ... 10 V, 2 ... 10 V,
± 20 V, ± 2 V, 0 ... 2 V

Input resistance

approx. 1 MΩ (U input)
approx. 50 Ω (I input)

Output:

Output signal

4 ... 20 mA

Load impedance

≤ 600 Ω

Overload capacity

30 V / 50 mA

General specifications:

Supply voltage

8 ... 30 V, power is derived from the output circuit

Max. operating frequency

100 Hz / 30 Hz
(switchable via DIP switch)Response time (T_{10-90})

3.5 ms

Transmission error

≤ 0.1 % of upper range value

Temperature coefficient

≤ 0.01 % / K

Zero/span adjustment

± 5 % of upper range value

Description

JUMPFLEX® Transducer, for DIN 35 rail

Item No.

857-450

Pack. Unit

1

Loop-Powered Isolation Amplifier

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 mm² ... 2.5 mm² / AWG 28 ... 12

fine-stranded:

0.34 mm² ... 2.5 mm² / 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

37 g

Standards and approvals:

Conformity marking

CE

UL 508

ANSI/ISA 12.12.01

(pending)

Shipbuilding

Ⓢ (pending)

Accessories

see pages 268 ... 271

DIP Switch Adjustability

● = ON

857-450

DIP switch (6 positions)

Input Signal					Output Signal	Max. Operating Frequency	
1	2	3	4	5	4 ... 20 mA	6	
							100 Hz
●		●	●			●	30 Hz
●		●	●	●			
●	●						
●		●					
●			●				
●			●	●			
●				●			
	●	●	●				
	●	●	●	●			
	●	●					
	●		●				
	●		●	●			
	●						
		●	●				
		●	●	●			
		●					
		●		●			
			●				
			●	●			

Default setting

Input	4 ... 20 mA
Output	4 ... 20 mA
Max. operating frequency	100 Hz

Wiring Material

