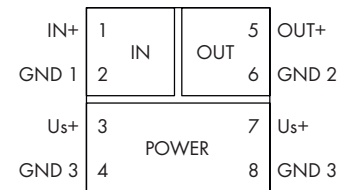
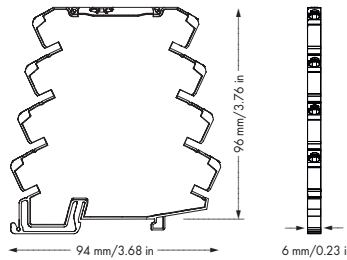


Configuration via:



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	
Configuration:	
Configuration	DIP switch
Input:	
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)
Output:	
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)
General specifications:	
Voltage supply V _N	24 V 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	Item No.	Pack. Unit
JUMPFLEX® transducers, for DIN 35 rail	857-400	1
Isolation amplifier, with zero/span adjustment		
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 ² ... 2.5 mm ² / AWG 28 ... 14 fine-stranded: 0.34 mm ² ... 2.5 mm ² / 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	CE	
UL 508		
ANSI/ISA 12.12.01	Class 1, Div. 2, Grp. ABCD, T4	
Shipbuilding	Ⓢ (pending)	
Accessories	see pages 268 ... 271	

DIP Switch Adjustability

● = ON

857-400

Dip Switch S1 (2-fold)		Dip Switch S2 (6-fold)					Max. Operating Frequency		
Input Signal		Output Signal							
1	2	1	2	3	4	5	6		
●	0 ... 20 mA						0 ... 20 mA	●	100 Hz
					●		4 ... 20 mA		> 5 kHz
		●	●				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