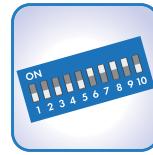


## Configuration via:



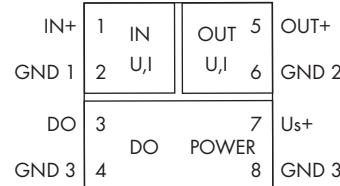
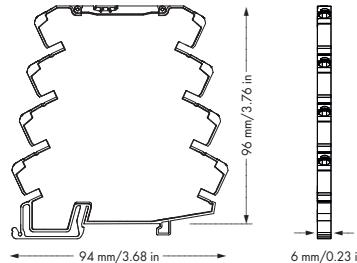
DIP Switches



PC Configuration Software



Smartphone App

**Short description:**

The software-configurable 857-401 Isolation Amplifier converts standard signals and amplifies, filters and electrically isolates analog standard signals.

**Characteristics:**

- PC configuration interface
- Digital switching output
- Calibrated scale switching
- Analog, unipolar and bipolar, standard signals at input
- Clipping capability allows analog standard signal limitation to upper range values.
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

**Technical Data**

Configuration:	
Configuration	DIP switches, PC configuration software, smartphone app
Input:	
Input signal	-20 ... +20mA, -10 ... +10V, 0 ... +30V *
Input resistance	$\leq 200 \Omega$ (I input)
	$> 100 \text{ k}\Omega$ (U input)
Max. input signal	31.2 V (U <sub>IN</sub> ) 100 mA (I <sub>IN</sub> )
Output:	
Output signal	0 - 20mA, 4 - 20mA, 0 - 5V, 1 - 5V, 0 - 10V, 2 - 10V, 0 - 10mA, 2 - 10mA*
Load impedance	$\leq 600 \Omega$ (I output) $\geq 2 \text{ k}\Omega$ (U output)
Step response	$\leq 8\text{ms}$
Output - Digital	
Max. switching voltage	Supply voltage applied
Max. continuous current	500 mA (up to 60 °C) 100 mA (60 °C ... 70 °C)
General specifications:	
Voltage supply V <sub>s</sub>	24V DC
Supply voltage range	16.8 V ... 31.2 V
Current consumption at 24 V DC	$\leq 40 \text{ mA}$
Min. measuring span	1 V, 2 mA (configurable)
Max. Messspanne	30 V, 40 mA
Transmission error	$\leq 0.1\%$ of upper range value
Temperature coefficient	$\leq 0.01\%$ /K

**Description****Item No.****Pack. Unit****JUMPFLEX® transducers, for DIN 35 rail** 857-401

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Isolation amplifier, configurable  
with digital output**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:  
fine-stranded:  
0.08 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> / AWG 28 ... 14  
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  
Weight      Height from upper-edge of DIN 35 rail

Weight      42 g

**Standards and approvals:**

Conformity marking      CE

UL 508

ANSI/ISA 12.12.01 (pending)

Shipbuilding      @

**Accessories**

see pages 268 ... 271

(\* Additional setting options via PC configuration software or smartphone app)

