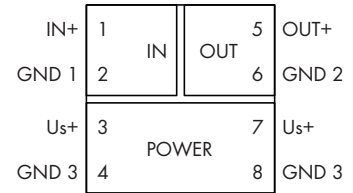
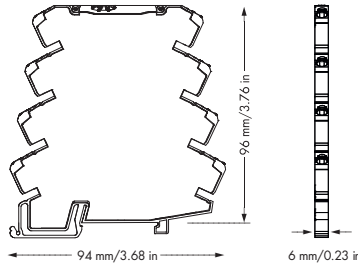
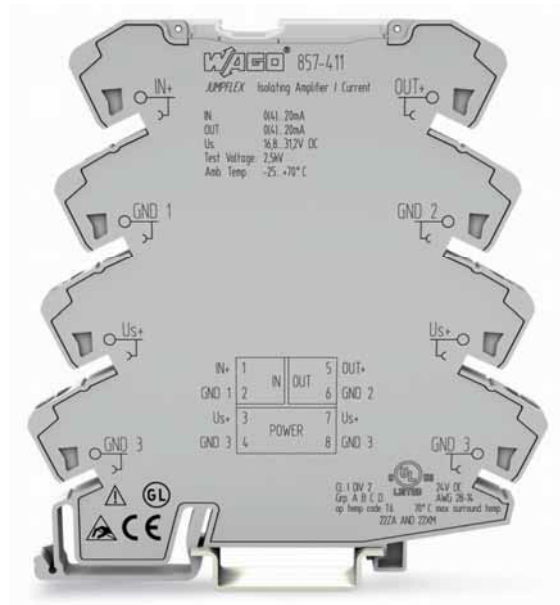


**3** **JUMPFLEX® Transducers**  
Isolation amplifiers, fixed setting for voltage or current signals



**Short description:**

The pre-configured isolation amplifiers convert, amplify, filter and electrically isolate standard analog signals.

**Characteristics:**

- Input/Output: current/voltage signal
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

Technical Data	
<b>Input:</b>	
Input signal	<b>857-411:</b> 0(4) ... 20 mA <b>857-412:</b> 0(2) ... 10 V <b>857-413:</b> 0 ... 10 V <b>857-414:</b> 0 ... 10 V <b>857-415:</b> 0 ... 20 mA <b>857-416:</b> 4 ... 20 mA
Input resistance	≤ 50 Ω (I input) ≥ 100 kΩ (U input)
<b>Output:</b>	
Output signal	<b>857-411:</b> 0(4) ... 20 mA <b>857-412:</b> 0(2) ... 10 V <b>857-413:</b> 0 ... 20 mA <b>857-414:</b> 4 ... 20 mA <b>857-415:</b> 0 ... 10 V <b>857-416:</b> 0 ... 10 V
Load impedance	≤ 600 Ω (I output) ≥ 2 kΩ (U output)
<b>General specifications:</b>	
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
Response time ( $T_{10/90}$ )	< 3.5 ms
Transmission error	≤ 0.1 % of upper range value
Temperature coefficient	≤ 0.01 % /K

Description	Input signal	Output signal	Item No.	Pack. Unit
<b>JUMPFLEX® Transducer, for DIN 35 rail</b>				
Isolation amplifier	0(4) ... 20 mA	0(4) ... 20 mA	<b>857-411</b>	1
Isolation amplifier	0(2) ... 10 V	0(2) ... 10 V	<b>857-412</b>	1
Isolation amplifier	0 ... 10 V	0 ... 20 mA	<b>857-413</b>	1
Isolation amplifier	0 ... 10 V	4 ... 20 mA	<b>857-414</b>	1
Isolation amplifier	0 ... 20 mA	0 ... 10 V	<b>857-415</b>	1
Isolation amplifier	4 ... 20 mA	0 ... 10 V	<b>857-416</b>	1
<b>Technical Data</b>				
<b>Environmental requirements:</b>				
Ambient operating temperature	-25 °C ... +70 °C			
Storage temperature	-40 °C ... +85 °C			
<b>Safety and protection:</b>				
Test voltage (input/output/supply)	2.5 kV AC, 50 Hz, 1 min			
<b>Connection and type of mounting:</b>				
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			
<b>Dimensions and weight:</b>				
Dimensions (mm) W x H x L	6 x 96 x 94			
Weight	Height from upper-edge of DIN 35 rail 49.2 g			
<b>Standards and approvals:</b>				
Conformity marking	CE			
UL 508	Class I, Div. 2, Grp. ABCD, T4			
ANSI/ISA 12.12.01	Shipbuilding			
Accessories	see pages 268 ... 271			