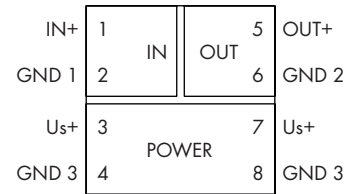
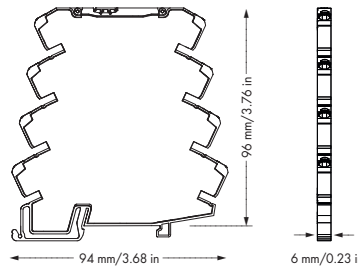


JUMPFLEX® Transducers

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

Description	Input signal	Output signal	Item No.	Pack. Unit
JUMPFLEX® Transducer, for DIN 35 rail				
Isolation amplifier	0(4) ... 20 mA	0(4) ... 20 mA	857-411	1
Isolation amplifier	0(2) ... 10 V	0(2) ... 10 V	857-412	1
Isolation amplifier	0 ... 10 V	0 ... 20 mA	857-413	1
Isolation amplifier	0 ... 10 V	4 ... 20 mA	857-414	1
Isolation amplifier	0 ... 20 mA	0 ... 10 V	857-415	1
Isolation amplifier	4 ... 20 mA	0 ... 10 V	857-416	1

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

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	49.2 g
Standards and approvals:	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
Shipbuilding	
Accessories	see pages 268 ... 271