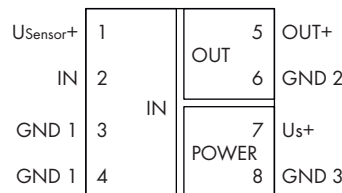
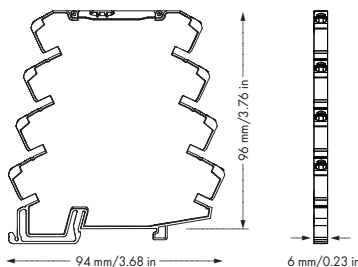
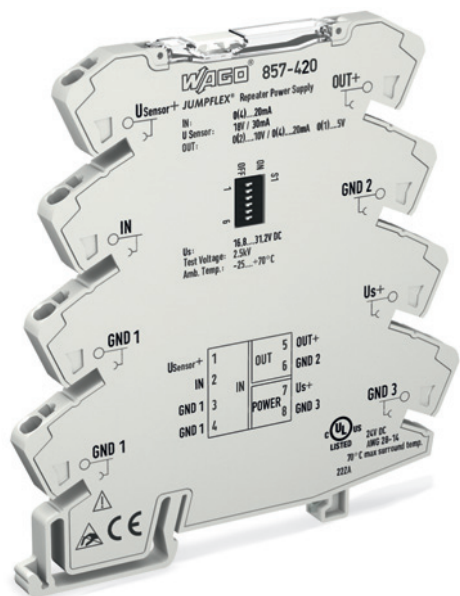
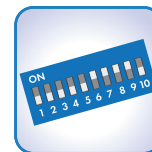


JUMPFLEX® Signal Conditioners

Repeater Power Supply, configurable with Current and Voltage Output



Configuration via:



DIP switch

Short description:

The 857-420 Repeater Power Supply links 2- or 3-wire transmitters located in the field. It provides the power required and transmits the analog signals in an electrically isolated way.

Characteristics:

- Power supply to SMART transmitters
- Calibrated scale switching
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

Description	Item No.	Pack. Unit
JUMPFLEX® Signal Conditioner, for DIN 35 rail	857-420	1
Repeater Power Supply, configurable with Current and Voltage Output		

Technical Data	
Configuration:	
Configuration	DIP switch
Input:	
Input signal	0 ... 20 mA, 4 ... 20 mA (calibrated switchable)
Input resistance	≤ 50 Ω
Max. input current	50 mA
Transmitter supply	V _s = 18 V at 30 mA
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)
Offset	< 20 µA / < 10 mV
Residual ripple	< 10mV eff
General specifications:	
Nominal supply voltage V _s	24 VDC
Supply voltage range	V _s -30 % ... +30 %
Current consumption at 24 VDC	≤ 45 mA
Max. operating frequency	100 Hz
Response time (T ₁₀₋₉₀)	< 3.5 ms
Transmission error	≤ 0.1 % of the full scale 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	Push-in CAGE CLAMP®
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 / 0.35 ... 0.39 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	46.7 g
Standards and approvals:	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
Accessories	see pages 226 ... 236

DIP Switch Adjustability

● = ON

857-420

Dip Switch S1 (6-fold)

						Input Signal	Output Signal
1	2	3	4	5	6		
						n.c.	0 ... 20 mA
			●			n.c.	0 ... 20 mA
●	●					n.c.	0 ... 20 mA
●	●		●			n.c.	0 ... 20 mA
●	●	●				n.c.	0 ... 20 mA
●	●	●	●			n.c.	0 ... 20 mA
				●		n.c.	4 ... 20 mA
						n.c.	4 ... 20 mA
●	●			●		n.c.	4 ... 20 mA
●	●					n.c.	4 ... 20 mA
●	●	●		●		n.c.	4 ... 20 mA
●	●	●				n.c.	4 ... 20 mA

Default Settings

Input	0 ... 20 mA
Output	0 ... 20 mA
DIP 6	n.c.

Connection assignment

