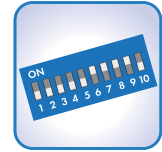
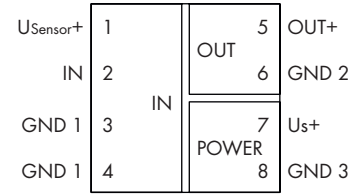
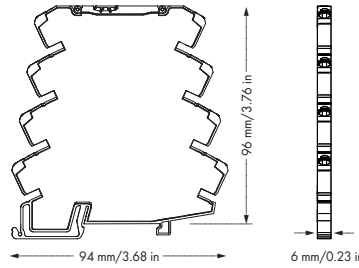


Configuration via:



DIP Switches



**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
<b>JUMPFLEX®</b> transducers, for DIN 35 rail	<b>857-420</b>	1
Repeater power supply, configurable with current and voltage output		

Technical Data	
<b>Configuration:</b>	
Configuration	DIP switches
<b>Input:</b>	
Input signal	0 ... 20 mA, 4 ... 20 mA (calibrated switchable)
Input resistance	≤ 50 Ω
Max. input current	50 mA
Transmitter supply	V <sub>s</sub> = 18 V at 30 mA
<b>Output:</b>	
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
<b>General specifications:</b>	
Voltage supply V <sub>s</sub>	24V DC
Supply voltage range	16.8 V ... 31.2 V
Current consumption at 24 V DC	≤ 45 mA
Max. operating frequency	100 Hz
Response time (T <sub>10-90</sub> )	< 3.5 ms
Transmission error	≤ 0.1 % of the full scale value
Temperature coefficient	≤ 0.01 % /K

Technical Data	
<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
	Height from upper-edge of DIN 35 rail
Weight	46.7 g
<b>Standards and approvals:</b>	
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	(pending)
Shipbuilding	Ⓢ (pending)
<b>Accessories</b>	see pages 268 ... 271

# DIP Switch Adjustability

● = ON

857-420

## Dip Switch S1 (6-fold)

						Input Signal	Output Signal
1	2	3	4	5	6		
						0 ... 20 mA	0 ... 20 mA
			●			0 ... 20 mA	4 ... 20 mA
●	●					0 ... 20 mA	0 ... 10 V
●	●		●			0 ... 20 mA	2 ... 10 V
●	●	●				0 ... 20 mA	0 ... 5 V
●	●	●	●			0 ... 20 mA	1 ... 5 V
				●		4 ... 20 mA	0 ... 20 mA
						4 ... 20 mA	4 ... 20 mA
●	●			●		4 ... 20 mA	0 ... 10 V
●	●					4 ... 20 mA	2 ... 10 V
●	●	●		●		4 ... 20 mA	0 ... 5 V
●	●	●				4 ... 20 mA	1 ... 5 V

## Default Settings

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

## Connection assignment

