

JUMPFLEX® Signal Conditioners

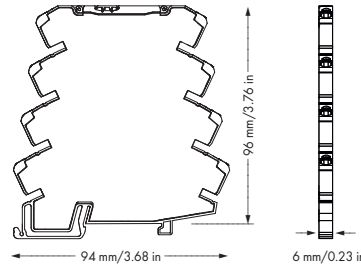
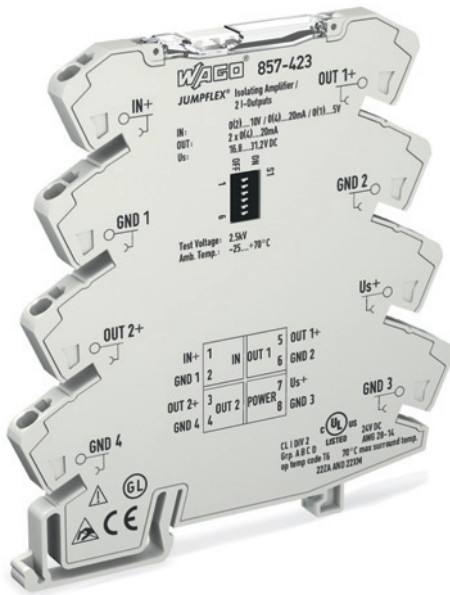
Signal Splitter with 2 configurable Current Outputs



Configuration via:



DIP switch



IN+	1	IN	5	OUT 1+
GND 1	2		6	GND 2
OUT 2+	3	OUT 2	7	Us+
GND 4	4	POWER	8	GND 3

Short description:

The 857-423 Signal Splitter converts standard signals and amplifies, filters and electrically isolates analog standard signals.

Characteristics:

- Two configurable current outputs
- Calibrated scale switching
- Switchable max. operating frequency
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

Technical Data**Configuration:**

Configuration DIP switch

Input:

Input signal 0 ... 20 mA, 4 ... 20 mA, 0... 5 V,
0 ... 10 V, 2 ... 10 V, 1 ... 5 V
(calibrated switchable)

Input resistance $\leq 50 \Omega$ (In = mA)
 $\geq 100 \text{ k}\Omega$ (In = V)

Output:

Output signal 2 x 0(4) ... 20 mA
(calibrated switchable)

Load impedance 2 x 300 Ω

General specifications:

Nominal supply voltage V_s 24 VDC
Supply voltage range V_s -30 % ... +30 %
Current consumption at 24 VDC $\leq 35 \text{ mA}$
Max. operating frequency 100 Hz / 1 kHz
(switchable via DIP switch)

Response time ($T_{10/90}$) $< 3.5 \text{ ms} / < 300 \mu\text{s}$
Transmission error $\leq 0.1 \%$ of the full scale value
Temperature coefficient $\leq 0.01 \%$ /K

Description

JUMPFLEX® Signal Conditioner, for DIN 35
Signal Splitter with 2 configurable Current Outputs

Item No.

857-423

Pack.
Unit

1

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 mm² ... 2.5 mm² / AWG 28 ... 14
fine-stranded:
0.34 mm² ... 2.5 mm² / 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 40.6 g

Standards and approvals:

Conformity marking **CE**
UL 508
ANSI/ISA 12.12.01 Class I, Div. 2, Grp. ABCD, T4
Shipbuilding GL, PRS, NKK, DNV, BV
EMC immunity of interference EN 61000-6-2
EMC emission of interference EN 61000-6-4

Accessories

see pages 226 ... 236

DIP Switch Adjustability

● = ON

857-423

Dip Switch S1 (6-fold)

Input Signal			Max. Operating Frequency	Output Signal 1		Output Signal 2	
1	2	3	4	5	6		
●			0 ... 20 mA	1 kHz	0 ... 20 mA		0 ... 20 mA
●		●	4 ... 20 mA	100 Hz	4 ... 20 mA	●	4 ... 20 mA
	●		0 ... 10 V				
	●	●	2 ... 10 V				
			0 ... 5 V				
		●	1 ... 5 V				

Default Settings

Input	0 ... 20 mA
Output 1	0 ... 20 mA
Output 2	0 ... 20 mA
Max. Operating Frequency	1 kHz