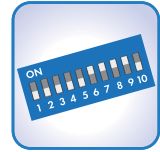
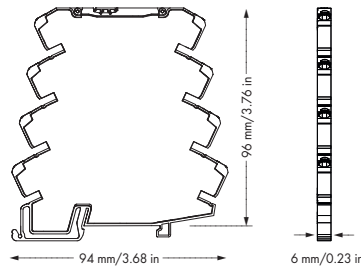


Configuration via:



DIP Switches



| | | | | |
|--------|---|-------|---|--------|
| 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 switches

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

Output:

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

Load impedance 2 x 300 Ω

General specifications:

Voltage supply V_s 24V DC
Supply voltage range 16.8 V ... 31.2 V
Current consumption at 24 V DC $\leq 35 \text{ mA}$
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® transducers, for DIN 35 rail
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 CAGE CLAMP® S
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 / 0.37 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 40.6 g

Standards and approvals:

Conformity marking CE
UL 508
ANSI/ISA 12.12.01 Class I, Div. 2, Grp. ABCD, T4
Shipbuilding (pending)

Accessories

see pages 268 ... 271

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 | | |
| ● | | | | > 1 kHz | | 0 ... 20 mA | 0 ... 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 |