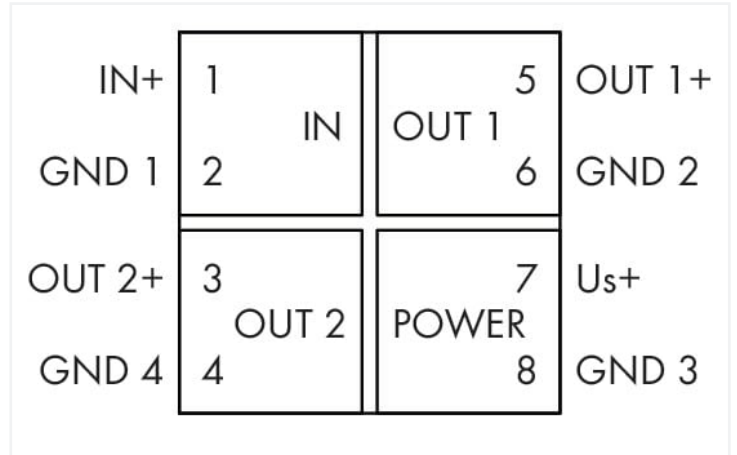
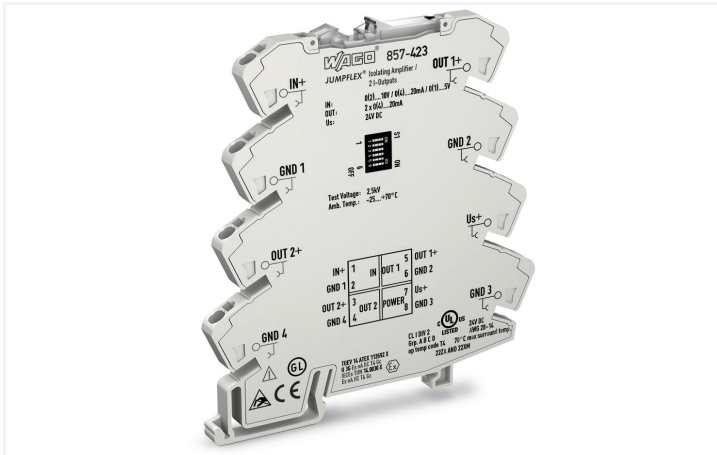


Data Sheet | Item Number: 857-423

Isolation amplifier; Current and voltage input signal; 2 x current output signal; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

<https://www.wago.com/857-423>

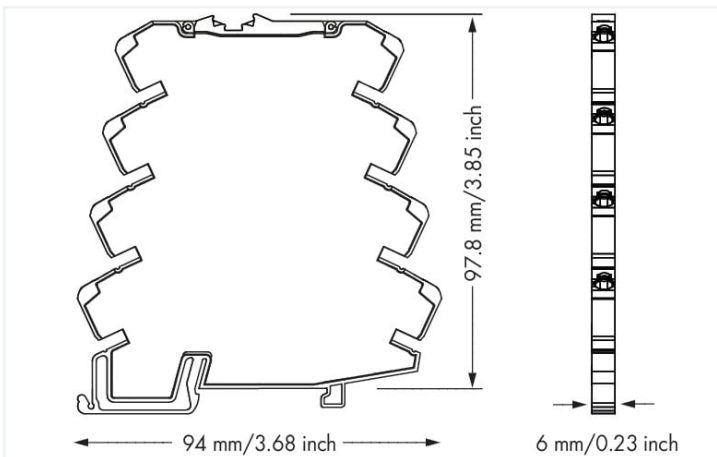
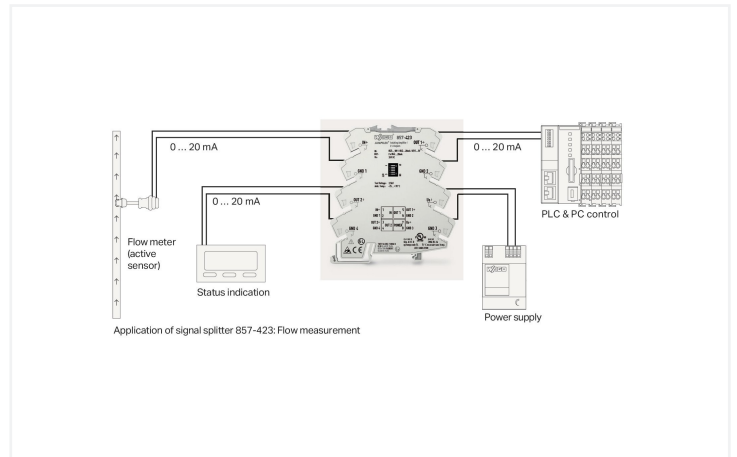


857-423
DIP Switch Adjustability

• = ON **Default**

DIP Switch S1 (6-fold)

1	2	3	Input Signal	4	Max. Operating Frequency	5	Output Signal 1	6	Output Signal 2
•	•	•	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						



Dimensions in mm

Short description:

WAGO's signal splitter converts, amplifies, filters and electrically isolates standard analog signals.

Features:

- Two configurable current outputs
- Calibrated measurement range switching
- Switchable limit frequency

Notes

Note

Use shielded signal lines!

Only use shielded signal lines for analog input and output signals. Only then can you ensure that the accuracy and interference immunity specified for the device can be achieved, even in the presence of interference acting on the signal cable.

Technical data

Configuration

Configuration options	DIP switch
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Input

Input signal type	Voltage Current
Input signal (voltage)	0 ... 5 V; 1 ... 5 V; 0 ... 10 V; 2 ... 10 V (calibrated switching)
Input signal (current)	0 ... 20 mA; 4 ... 20 mA (calibrated switching)
Input resistance (current input)	≤ 50 Ω
Input resistance (voltage input)	≥ 100 kΩ

Output (analog)

Output signal type	Current
Output signal (current)	0 ... 20 mA; 4 ... 20 mA (calibrated switching)
Load impedance (current output)	≤ 300 Ω per channel

Signal processing

Limit frequency	100 Hz / 1 kHz (configurable via DIP switch)
Step response (typ.)	3.5 ms (100 Hz); 300 μs (1 kHz)

Measurement error

Transmission error (typ.)	≤ 0.1 % of upper-range value
Transmission error (max.)	≤ 0.2 % of upper-range value
Transmission error (under interference)	≤ 10 %
Temperature coefficient	≤ 0.01 %/K

Supply

Power supply type	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 35 mA

Safety and protection

Rated voltage	300 V
Protection type	IP20

Test voltage

Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
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Insulation parameters(UL)

Overvoltage category	II
Pollution degree	2
Insulation type (input/analog output 1/ analog output 2/supply)	Functional insulation

Insulation parameters

Overvoltage category	II
Pollution degree	2

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Cable type	Shielded cable

Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0.418 MJ
Weight	40.6 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DNV

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 8.0	EC002653
ETIM 7.0	EC002653
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454471316
Customs tariff number	85437090300

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	7f80e530-518c-4332-b63d-f783f8402a2e
SCIP notification number (Belgium)	c81ed8b2-9351-4bd6-bbec-ad01c7b5e005
SCIP notification number (Bulgaria)	72846ff6-90c1-455b-973f-b39a4c6b7b8e
SCIP notification number (Czech Republic)	e8b63427-09fe-4f0e-9fc8-448ffa3493a6
SCIP notification number (Denmark)	fe49cce4-0b9a-40d7-a705-7067f41d48eb
SCIP notification number (Finland)	7b81be79-d611-4ca8-8551-2412f40a83b2
SCIP notification number (France)	012fb7cb-b859-4054-826f-3a993faa5a91
SCIP notification number (Germany)	1aac8de7-6254-4741-923d-9ee0f0d08019
SCIP notification number (Hungary)	632dd9de-deee-41d7-bd28-5e265b1366b0

Environmental Product Compliance

SCIP notification number (Italy)	f572555c-a953-4b22-882a-35af021e0f80
SCIP notification number (Netherlands)	cbc60fb2-2754-48a2-8218-1f5a406dbd3d
SCIP notification number (Poland)	8713aedd-e8e0-4378-b6e9-8e54755360f2
SCIP notification number (Romania)	aa0a038d-0e88-45cd-ab96-3953d99a66da
SCIP notification number (Sweden)	0fbf4256-36a3-4b5e-af86-39eee5939380