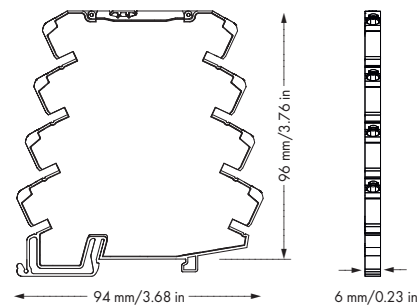
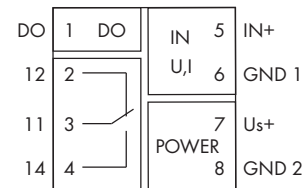
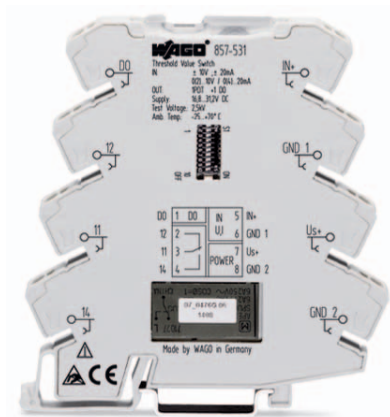


JUMPFLEX® Transducers

Threshold value switch with analog input and changeover relay output

**Short description:**

The threshold value switch for analog signals monitors analog standard signals and reports signals exceeding a preset threshold. It is equipped with an analog input and a changeover relay output. The device features a 24VDC nominal voltage supply. In addition, the device has a digital output (DO) to indicate other conditions, such as a range overflow or underflow. The threshold value switch can be configured via DIP switches and teach-in function via push-slider switch. Configuration via FDT/DTM software is also possible.

Description	Item No.	Pack. Unit
Threshold value switch with analog input, changeover relay output and digital output	857-531	1
Accessories		
Configuration software	- 759-370 FDT Frame Application - DTM (Device Tool Manager) Download: see www.wago.com	
WAGO USB Service Cable	750-923	
General accessories	see pages 222 - 223	
Approvals		
Shipbuilding	® (pending)	
Ⓢ ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
Conformity marking	CE	
General Specifications		
Dimensions (mm) W x H x L	6 x 96 x 94	
	Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP®S	
Cross sections	solid: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12	
	fine-stranded: 0.34 mm² ... 2.5 mm² / AWG 22 ... 12	
Stripped lengths	9 ... 10 mm / 0.37 in	

Technical Data	
Configuration	DIP switch, teach-in function, configuration software
Input signal	-10...+10 V, -20...+20 mA, 0...+30 V
Max. input signal	(31.2 V (U _{IN}) 100 mA (I _{IN}))
Input resistance	≤ 200 Ω (I input) > 100 kΩ (U input)
Output - Relay	
Contact type	1 changeover contact
Max. switching voltage	250 V AC
Max. continuous current (terminal)	max. 6 A (to 60 °C), 3 A (60 to 70 °C)
Max. Switching power (resistive)	1250 VA AC
Switching threshold	1 bzw. 2 (adjustable)
Configurable rise and fall delay time	10 s (via DIP switch),
Output - Digital	
Max. switching voltage	Supply voltage
Max. continuous current	500 mA (to 60 °C) 100 mA (60 to 70 °C)
Supply voltage range	16.8 V ... 31.2 V
Test voltage	
(input/output/supply)	2.5 kV AC, 50 Hz, 1 min
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C

DIP Switch Adjustability

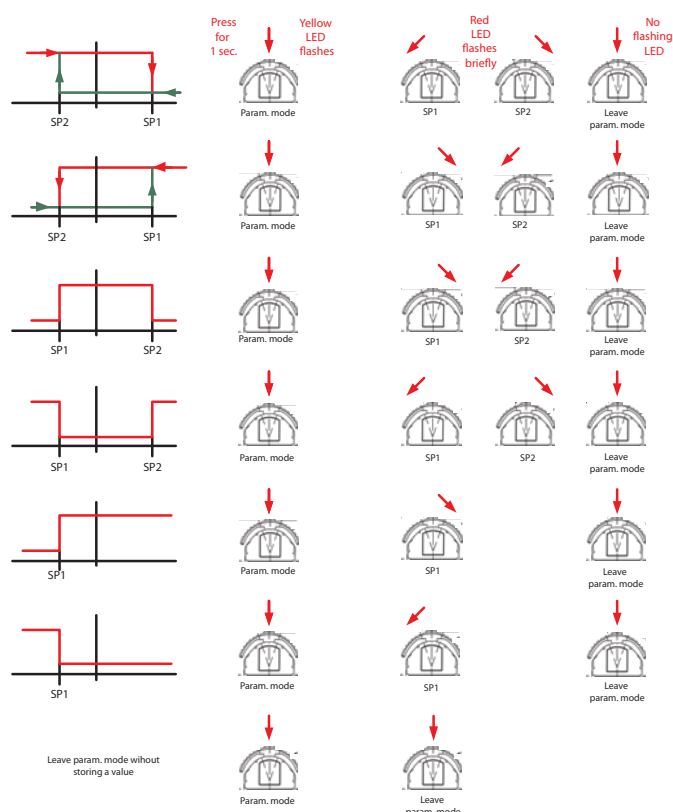
● = ON

857-531

DIP S1					
1	2	3	4	Input signal limits $\pm 0.25 \text{ V}; \pm 0.5 \text{ mA}$	5
				$\pm 10 \text{ V}$	
	●			0 ... 10 V	●
		●		2 ... 10 V	
	●	●		0 ... 5 V	
			●	1 ... 5 V	
	●		●	$\pm 5 \text{ V}$	
		●	●	0 ... 15 V	
	●	●	●	0 ... 30 V	
●				$\pm 20 \text{ mA}$	
●	●			0 ... 20 mA	
●		●		4 ... 20 mA	
●	●	●		0 ... 10 mA	
●			●	2 ... 10 mA	
●	●		●	$\pm 10 \text{ mA}$	
					Hysteresis
					5 mV; 10 μA
					10 mV, 20 μA

DIP S1					
6	7	8	Configurable rise/ fall delay time in sec.	9	Measuring range overflow indication
			0		DO Ub switched
●			1	●	DO GND switched
	●		2		
●	●		3		
		●	4		
●		●	5		
	●	●	8		
●	●	●	10		
					DO
					not active
					active

"Teach-In" Switch Operation



Default settings

In delivery status all DIP switches are in the position "OFF".

- Input range: $\pm 10 \text{ V}$
- Hysteresis: 5 mV
- Configurable rise/fall delay time: 0 s
- DO: not active