

DC voltage or current input with relay output

WAS5 DC/Alarm
WAZ5 DC/Alarm

NEW



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US

- DC voltage or current input by DIP-Switches
- 1 relay per setpoint
- 3-way-isolation
- Threshold and hysteresis independent adjustable per channel
- Low trip or high trip selectable by DIP-Switches per channel
- FAILSAFE or NON FAILSAFE selectable by DIP-Switches
- Alarm indication by LED

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DC voltage or current input with relay output

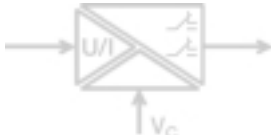
WAVEANALOG DC/Alarm

- 3-way-isolation
- low trip / high trip
- FAILSAFE / NON FAILSAFE
- 1 relay per setpoint 250V ac @ 3A

Approvals:



Schematic circuit diagram



Ordering data

Screw connection
Tension clamp connection

Technical data*

Input

Input voltage 0...10 V
Input resistance $\geq 100 \text{ k}\Omega$
Input current 0/4...20 mA
Input resistance $\leq 110 \Omega$

Output

Relay 1 relay per channel
Relay type 1 change over
Contact material AgNi 90/10
Switching voltage 253 Vac
max. switching voltage 253 Vac
Permanent current ac 3 A
Switching load ac 750 VA
Status indication 1 red LED per channel for alarm indication, power on: green LED
Mechanical lifetime 15 x 10E6
Electrical lifetime (max. load) 10E5
Threshold 1...90% (independent for channel 1 & 2)
Hysteresis 1...10% (independent for channel 1 & 2)
Temperature coefficient $\leq 500 \text{ ppm/K}$
Repeatability max. +/- 0.3 % from end value
10 V or 20m A

Coordination of insulation according to EN 50178, 04/98

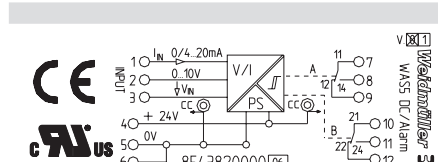
Rated voltage 300 V
Rated surge voltage 4 kV
Overvoltage category III
Contamination class 2
Clearance and creepage distance 3 mm
Test voltage 4 kV_{eff}

General Data

Supply voltage 18 Vdc...24 Vdc...30 Vdc
Power consumption typ. 1 W both relay detected
Current carrying capacity of cross-connection $\leq 2 \text{ A}$
Operating temperature 0...+55 °C (line up on DIN rail)
Storage temperature -20 °C...+85 °C
Standards/Specifications EN 50178
EMC standards EN 50082-2, EN 50081-1, EN 50081-2 EN 55011
Dimensions L/H/W (mm) 92.4 / 112.5 / 17.5
Weight 150 g

Approvals
* Tu 23 °C, single module

DC/Alarm



Type	Cat. No.	Qty.
WAS5 DC/Alarm	8543820000	1
WAZ5 DC/Alarm	8543880000	1

Function	SW 1			
	1	2	3	4
Channel A High Trip	<input type="checkbox"/>			
Channel A Low Trip	<input checked="" type="checkbox"/>			
Channel B High Trip		<input type="checkbox"/>		
Channel B Low Trip		<input checked="" type="checkbox"/>		
FAILSAFE, Channel 1 & 2			<input type="checkbox"/>	<input type="checkbox"/>
NON FAILSAFE, Channel 1 & 2		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

■ = ein
□ = aus

NON FAILSAFE: The relay picks up when the alarm is triggered. The relay drops out when the alarm is triggered.

FAILSAFE: An alarm is also triggered in the FAILSAFE mode, if for example, the operating voltage to the module fails.

Low trip: Alarm is triggered if the set signal threshold is exceeded.

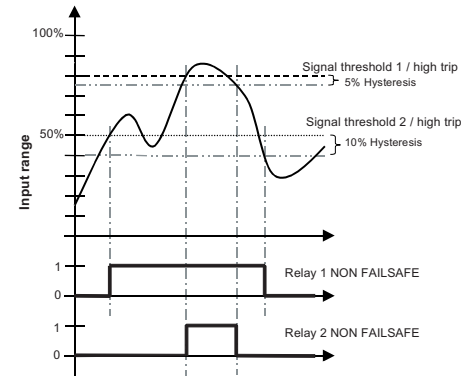
High trip: Alarm is triggered if the set signal threshold is exceeded.

Signal threshold: Adjustments of the signal threshold (1...90)% are made for channel 1 with the potentiometer P1, and separately for channel 2 via potentiometer P2.

Hysteresis: Adjustments of the hysteresis (1...90)% are made for channel 1 with the potentiometer P3, and separately for channel 2 via potentiometer P4.

WAVEANALOG DC/Alarm – Alarm indication

Example 1



Example 2

