

## WAVEANALOG DC/Alarm

- 3-way-isolation
- Low trip/high trip
- FAILSAFE/NON FAILSAFE modes
- 1 relay per setpoint 250 VAC @ 3A

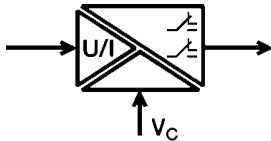
## DC/Alarm



### Approvals:



#### Schematic circuit diagram



#### Ordering data

- Screw clamp connection
- Tension clamp connection

#### Technical data\*

##### Input

- Input voltage
- Input resistance
- Input current
- Input resistance

##### Output

- Relay
- Relay type
- Contact material
- Switching voltage
- max. switching voltage
- Steady state current ac
- Switching load ac
- Status indication

- Mechanical lifetime
- Electrical lifetime (max. load)
- Threshold
- Hysteresis
- Temperature coefficient
- Repeatability

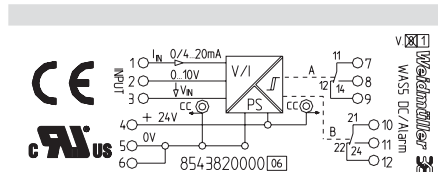
#### Coordination of insulation according to EN 50178, 04/98

- Rated voltage
- Rated surge voltage
- Overvoltage category
- Contamination class
- Clearance and creepage distance
- Test voltage

#### General Data

- Supply voltage
- Power consumption
- Current carrying capacity of cross-connection
- Operating temperature
- Storage temperature
- Standards/Specifications
- EMC standards
- Dimensions W/L/H
- Weight
- Approvals

\* Tu 23 °C, single module



Type	Part No.
WAS5 DC/Alarm	8543820000
WAZ5 DC/Alarm	8543880000

- 0...10 V
- ≥ 100 kΩ
- 0/4...20 mA
- ≤ 110 Ω
- 1 relay per channel
- SPDT
- AgNi 90/10
- 253 VAC
- 253 VAC
- 3 A
- 750 VA
- 1 red LED per channel for alarm indication, power on: green LED
- 15 x 10<sup>6</sup> operations
- 10<sup>5</sup>
- 1...90% (independent for channel 1 & 2)
- 1...10% (independent for channel 1 & 2)
- ≤ 500 ppm/K
- max. ± 0.3 % from full scale value
- 10 V or 20m A

- 300 V
- 4 kV
- III
- 2
- 3 mm
- 4 kV<sub>eff</sub>

- 18 VDC...24 VDC...30 VDC
- typ. 1 W both relay detected
- ≤ 2 A

- 0°C...+55°C mounted on horizontal DIN rail
- 20°C...+85°C

- EN 50178
- EN 50082-2, EN 50081-1, EN 50081-2 EN 55011
- 17.5/92.4/112.5 (0.69/3.64/4.43)
- 150 g



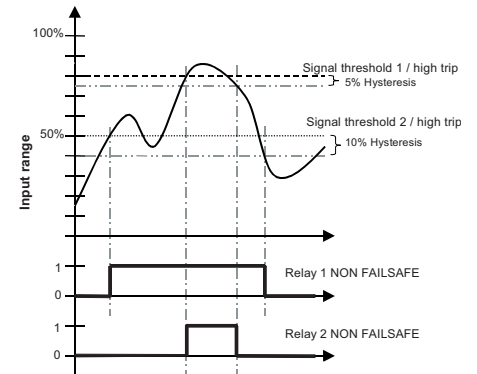
Function	SW 1			
	1	2	3	4
Channel A High Trip	<input type="checkbox"/>			
Channel A Low Trip	<input checked="" type="checkbox"/>			
Channel B High Trip		<input type="checkbox"/>		
Channel B Low Trip		<input checked="" type="checkbox"/>		
FAILSAFE, Channel 1 & 2			<input type="checkbox"/>	<input type="checkbox"/>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

- = on
- = off

- 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

