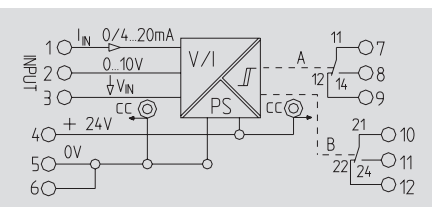
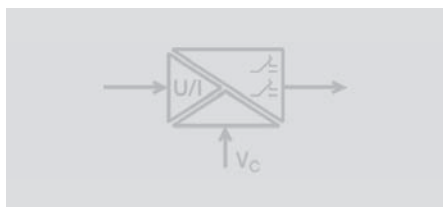


Threshold monitoring

Relay output

- 3-way disconnection
- Low trip / high trip
- FAILSAFE / NON FAILSAFE
- 2 Relay outputs 250Vac/3A

DC/Alarm



Switch position/setting options

function	SW 1			
	1	2	3	4
Kanal A High Trip	■			
Kanal A Low Trip		□		
Kanal B High Trip			■	
Kanal B Low Trip			□	
FAILSAFE, Kanal 1 & 2			□	□
NON FAILSAFE, Kanal 1 & 2			■	■

■ = on
□ = off

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

FAILSAFE: The relay drops out when the alarm is triggered. An alarm is also triggered in the FAILSAFE mode, if for example, the operating voltage to the moduls fail

Low Trip: Alarm is triggered if the signal is undershoot the threshold.

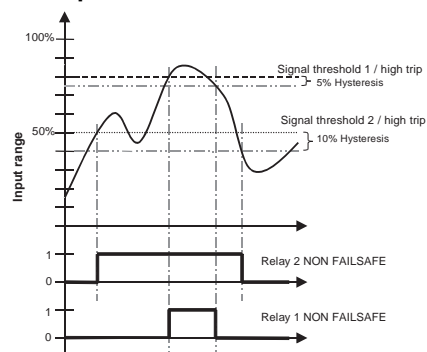
High Trip: Alarm is triggered if the signal is overshoot the threshold.

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.

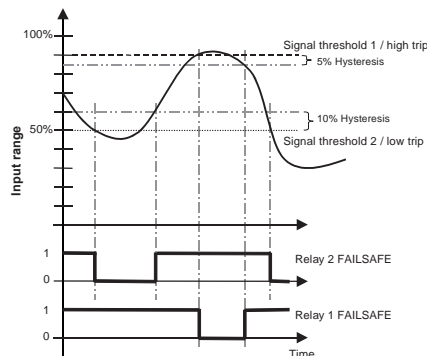
Hysterese: Adjustments of the hysteresis (1...10%) are made for channel 1 with the potentiometer P3, and separately for channel 2 via potentiometer P3.

WAVEANALOG DC/Alarm – Alarm indication

Example 1



Example 2



Technical data

Input	
Input voltage	0...10 V
Input current	0(4)...20 mA
Input resistance voltage/Current	>= 100 kΩ / <= 110 Ω
Output	
Contact arrangement	2 change-over contacts
Contact material	AgNi 90/10
Switching thresholds	1...90 % (independently for channel 1 and channel 2)
Hysteresis	1...90 % (independently for channel 1 and channel 2)
Switching voltage max./Switching voltage min.	253 Vac /
Continuous current	3 A
Function	failsafe / non failsafe
Temperature coefficient	<= 500 ppm/K
Status indicator	LED green ON: OK, LED red ON: alarm (per channel)
General data	
Supply voltage	24 Vdc +/- 25 %
Power consumption	typ. 1 W both relays picked up
Current-carrying cap. of cross-connect.	<= 2 A
Operation temperature	0 °C...+55 °C (fitted)
Storage temperature	-20 °C...+85 °C
Default settings	channel A/B: low trip and FAILSAFE
Approvals	CE / ESD / cURus
Insulation coordinates	
Standards	EN 50178
EMC standards	EN 61000-4-2, -3, -4, -5, -6
Rated voltage	300 V
Impulse withstand voltage	4 kV
Pollution severity	2
Overvoltage category	III
Clearance & creepage path	>= 3 mm
Isolation voltage Input, output	1.2 kVeff / 5s

Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm

Information	
Tu=23°C, single module	

Ordering data

Type of connection	
Screw connection	
Tension clamp c.	

Screw connection	Tension clamp c.
2.50 / 0.50 / 2.50	1.50 / 0.50 / 2.50
92.4 x 17.5 x 112.4	92.4 x 17.5 x 112.4

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

Information

Accessories

Information	Voltage supply 24V and 0V with ZQV 2.5N/2 cross-connection
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Articles with coloured order number are kept permanently in stock at the central warehouse in Germany. Delivery times see page X.2