

## WAVESERIES WAS5 DC/Alarm

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WAS/WAZ5 DC/Alarm analogue DC current/voltage signal converters with integrated limit-value monitoring and external power supply.

The input and output parameters can be configured. During operation, the analogue value on the input side is continuously monitored.

The upper and lower operating points can be adjusted and are switched via relays.

Various monitoring functions such as fail-safe, non fail-safe, high-/low trip and hysteresis can be adjusted via DIP switches.

The WAS/WAZ5 DC/Alarm is constructed with 3-way isolation.

Either screw or tension-clamp wire connections are available for the monitoring modules. The 24 VDC supply voltage can be bridged using pluggable ZQV 2.5N cross-connectors on the module side.

The 17.5 mm wide monitoring components can be used anywhere within the electrical cabinet or in process and industrial automation applications.

### General ordering data

Type	WAS5 DC/Alarm
Order No.	<a href="#">8543820000</a>
Version	WAVESERIES, Limit value monitoring, 0(4)...20 mA, 1, 3 A, 2, Screw connection
GTIN (EAN)	4032248181230
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Length	92.4 mm	Length (inches)	3.638 inch
Width	17.5 mm	Width (inches)	0.689 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Weight	137 g	Net weight	110.1 g

**Temperatures**

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	0 °C...55 °C
Storage temperature	-20 °C...85 °C		

**Probability of failure**

MTTF	369 Jahre
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**Input**

Input resistance, current	≤ 110 Ω	Input resistance, voltage	≥ 100 kΩ
Input voltage (voltage mode input)	0...10 V	Number of inputs	1
Input current	0(4)...20 mA		

**Output**

Accuracy	Repeat accuracy: max. ± 0.3% of end value (10 V/ 20 mA)	Contact material	AgNi 90/10
Continuous current	3 A	Function	Open-circuit/closed-circuit principle
Hysteresis	1...10 % (independent for channel 1 and channel 2)	Max. switching voltage, AC	250 V
Number of outputs	2	Output current	3 A
Status indicator	LED green ON: OK, LED red ON: alarm (per channel)	Switching current	5 A
Switching thresholds	1...90 % (independently for channel 1 and channel 2)	Temperature coefficient	≤ 500 ppm/K

**General data**

Configuration	DIP switch, Potentiometer	Current-carrying capacity of cross- connect.	≤ 2 A
Default setting	Channel A/B: low trip and FAILSAFE	Galvanic isolation	3-way isolator
Humidity	40 °C / 93 % rel. humidity, no condensation	Input/Output	0...10 V, 0(4)...20 mA / 2 CO contact
Mounting rail	TS 35	Power consumption	Typically 1 W both relays picked up
Supply voltage	24 V DC ± 25 %	Temperature coefficient	≤ 500 ppm/K
Type of connection	Screw connection	Weight	137 g

**Data sheet**

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**Technical data**

**Insulation coordination**

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 61000-4-2, -3, -4, -5, -6
Impulse withstand voltage	4 kV	Insulation voltage	2 kV <sub>eff</sub> / 5 s
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178	Surge voltage category	III

**Connection data**

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, max.	2.5 mm <sup>2</sup>

**Classifications**

ETIM 4.0	EC002654	ETIM 5.0	EC002654
ETIM 6.0	EC002654	eClass 6.2	27-21-01-22
eClass 7.1	27-21-01-22	eClass 8.1	27-21-01-22
eClass 9.0	27-21-01-22		

**Product information**

Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories
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**Approvals**

Approvals



ROHS	Conform
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**Downloads**

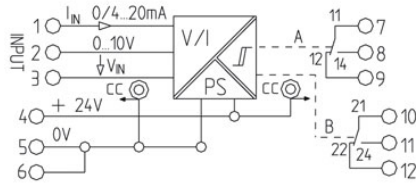
Package insert	<a href="#">instruction sheet</a>
Declaration of Conformity	<a href="#">Declaration of Conformity</a>

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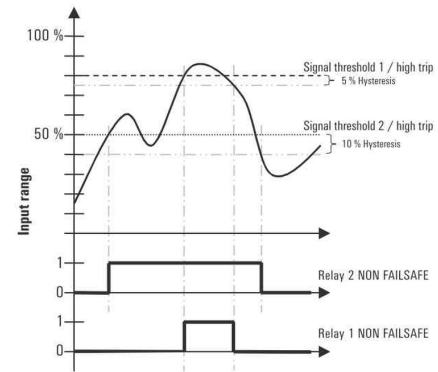
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**Drawings**

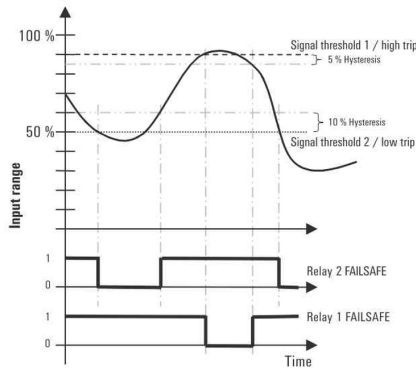
**Electric symbol**



**Example 1**



**Example 2**



**Switch position/setting options**

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

■ = on  
□ = off

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