

WAZ5 DC/ALARM

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

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info@weidmueller.com

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General ordering data

Version	Limit value monitoring, Input : 0-20 mA, 0-10 V, Output : 2 x relays
Order No.	8543880000
Type	WAZ5 DC/ALARM
GTIN (EAN)	4032248181247
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Width	17.5 mm	Width (inches)	0.689 inch
Length	92.4 mm	Length (inches)	3.638 inch
Net weight	141 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	369 Jahre
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Input

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

Output

Contact material	AgNi 90/10	Status indicator	LED green ON: OK, LED red ON: alarm (per channel)
Switching thresholds	1...90 % (independently for channel 1 and channel 2)		

Output (digital)

Alarm function	configurable, High or low alarm, Hysteresis 5% / 10%	Contact material	AgNi 90/10
Continuous current	3 A	Hysteresis	1...10 % (independent for channel 1 and channel 2)
Max. switching voltage, AC	250 V	Type	2 CO contacts, Open or closed-circuit principle

General data

Accuracy	Repeat accuracy: max. ± 0.3% of measuring range end value (10 V/ 20 mA)	Configuration	DIP switch, Potentiometer
Current-carrying capacity of cross- connect.	≤ 2 A	Galvanic isolation	3-way isolator
Input/Output	0...10 V, 0(4)...20 mA / 2 CO contact	Power consumption	Typ.: 1 W both relays picked up
Rail	TS 35	Temperature coefficient	≤ 500 ppm/K
Type of connection	Tension-clamp connection	Voltage supply	24 V DC ± 25 %

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Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	www.weidmueller.com EN 61000-4-2, -3, -4, -5, -6
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV _{eff} / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

Connection data

Type of connection	Tension-clamp connection	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Classifications

ETIM 6.0	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ECLASS 9.0	27-21-01-22
ECLASS 9.1	27-21-01-22	ECLASS 10.0	27-21-01-22
ECLASS 11.0	27-21-01-22	ECLASS 12.0	27-21-01-22

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Technical data

Tender specification sheets

Long specification

Short specification

Limit-value monitoring component for DC-current/ voltage standard signals with relay output and 3-way electrical isolation.
Limit-value monitoring component in 22.5 mm width for recording 0(4)...20 mA / 0...10 V standard signals. Two relay contacts (COs), each with a switching capacity of 750 VA, are available on the output side for monitoring an upper and lower limit. The switching behaviour (high/low trip, fail-safe) can be selected using DIP switches. Switching thresholds and hystereses are adjustable using the front-side potentiometer. The component has 4 kV of 3-way isolation and is supplied externally with 24 VDC.

Add-on housing for TS35 rail mounting
Dimensions: L/W/H
92.4/ 22.5/ 112.4 mm
Tension-clamp connection / Nominal cross-section 1.5 mm²
Protection degree: IP 20
Input
0(4)...20 mA / 0...10 V
Output
2 x relay / CO

Open-circuit/closed-circuit principle
Switching current 3 A
Switching voltage 6...250 V AC / 6...60 V DC
Switching thresholds 1...90 % via potentiometer (independently for channels 1 and 2)
Hysteresis 1% ... 10 % via potentiometer (independently for channels 1 and 2)
Temperature coefficient < 500 ppm/K
Step response 10...90 % (10...90 %)
Auxiliary power 24 VDC +/- 25 %

Limit-value monitoring component for DC-current/voltage standard signals with relay output and 3-way electrical isolation.

Limit-value monitoring component in 22.5 mm width for recording 0(4)...20 mA / 0...10 V standard signals. Two

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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7	

Important note

Product information	This product will soon be replaced by a new product. Please do not use with new systems. Please contact our technical support.
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Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
Product Change Notification	20220218 Technical change - WAVE series' signal conditioners WS WZ
User Documentation	instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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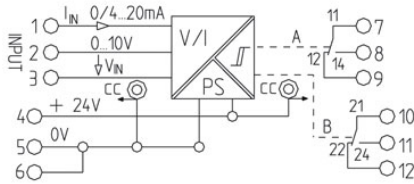
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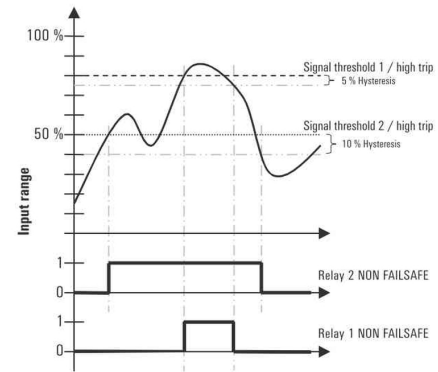
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Drawings

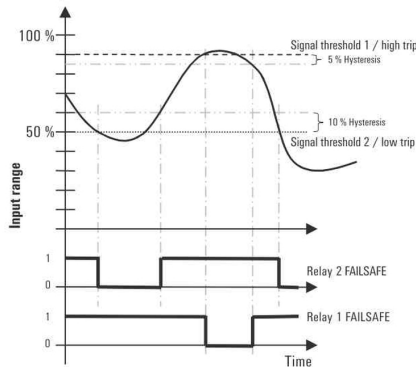
Connection diagram



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