

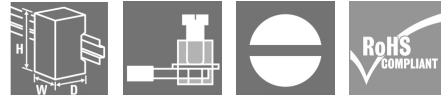
**WAS5 DC/ALARM****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**General ordering data**

Version	Limit value monitoring, Input : 0-20 mA, 0-10 V, Output : 2 x relays
Order No.	<a href="#">8543820000</a>
Type	WAS5 DC/ALARM
GTIN (EAN)	4032248181230
Qty.	1 Stück

Erstellungs-Datum May 26, 2023 3:44:35 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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## Technische Daten

### 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	110.1 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 (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	Status indicator	LED green ON: OK, LED red ON: alarm (per channel)
Switching thresholds	1...90 % (independently for channel 1 and channel 2)	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
Voltage supply	24 V DC ± 25 %		

### Insulation coordination

Clearance and creepage distances	≥ 3 mm	EMC standards	EN 61000-4-2, -3, -4, -5, -6
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV <sub>eff</sub> / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

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**Technische Daten****Connection data**

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

**Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20

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**Technische Daten**

**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 can be adjusted with 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**  
**Screw connection / Nominal cross-section**  
**2.5 mm<sup>2</sup>**  
**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 time < 60 ms**

**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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## Technische Daten

### 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.

### Approvals

Approvals



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

### Downloads

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

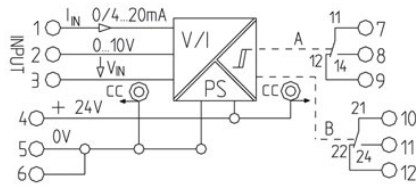
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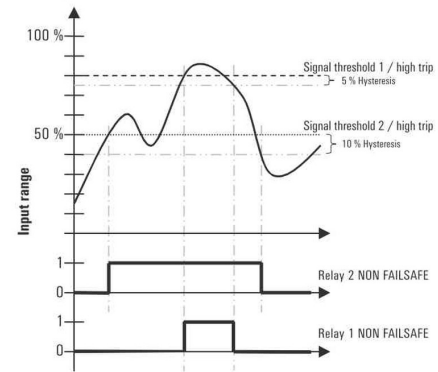
## Zeichnungen

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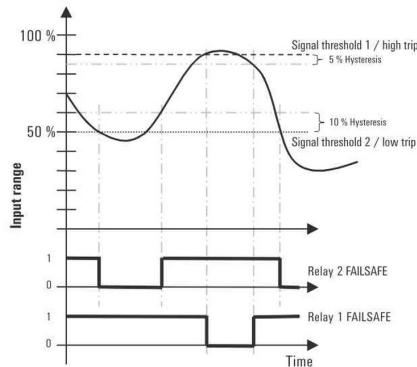
### Connection diagram



### Example 1



### Example 2



### Switch position/setting options

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

= on  
 = off