

WAVESERIES
WAS5 DC/Alarm

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Do not use product for new
developments



Monitoring components for analogue DC current and voltage signals with integrated limit value monitoring and external power supply.

Input and output parameters can be optionally configured. The limit-value monitoring components are mounted on the DIN rail and can be used in all types of applications in process and industrial automation industries.

General ordering data

Type	WAS5 DC/Alarm
Order No.	8543820000
Version	WAVESERIES, Limit value monitoring, 0(4)...20 mA, 1, 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, max.	55 °C
Operating temperature, min.	0 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-20 °C	Operating temperature	0 °C...55 °C
Storage temperature	-20 °C...85 °C		

Probability of failure

MTTF	369 Jahre
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

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

Output

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

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 & 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 _{eff} / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

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Technical data

Output (digital)

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

Connection data

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Classifications

ETIM 4.0	EC002654	ETIM 5.0	EC002654
ETIM 6.0	EC002653	eClass 6.2	27-21-01-22
eClass 7.1	27-21-01-22	eClass 8.1	27-21-01-22
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20

Product information

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

Downloads

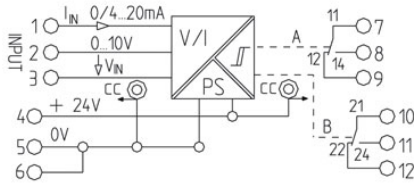
Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
User Documentation	instruction sheet

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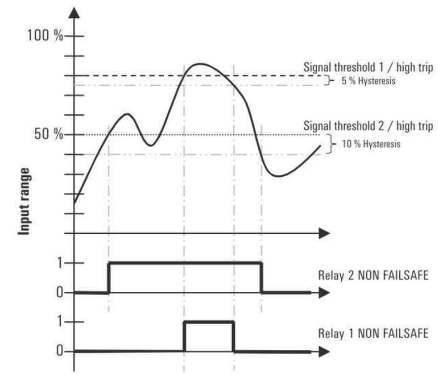
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Drawings

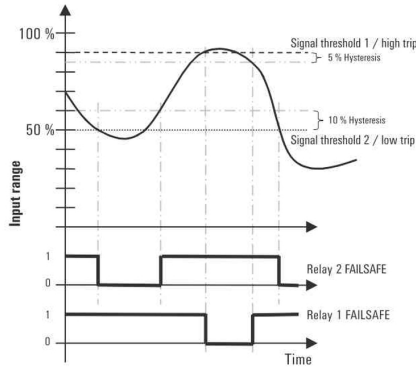
Connection diagram



Example 1



Example 2



Switch position/setting options

function	SW 1			
	1	2	3	4
Channel A High Trip	<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