WAS5 DC/ALARM

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

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.	8543820000
Type	WAS5 DC/ALARM
GTIN (EAN)	4032248181230
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	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

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	Screw connection	Voltage supply	24 V DC ± 25 %

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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

Connection data

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	2.5 mm²

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

Data sheet

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Technical data

Tender specification sheets

Long 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 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 time < 60 ms (10...90 %)
Auxiliary power 24 VDC +/- 25 %
Ambient**

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**

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Technical data

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	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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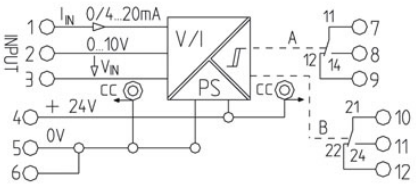
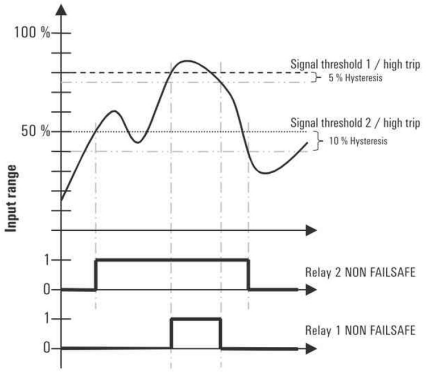
Drawings

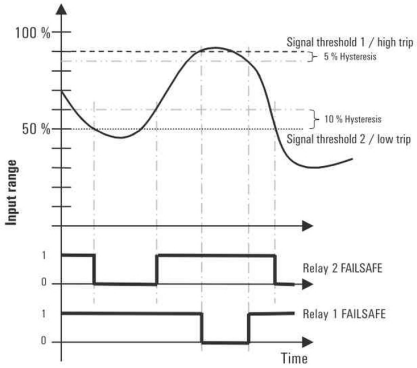
Connection diagram



Example 1



Example 2



Switch position/setting options

	SW 1			
function	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