Data sheet

WAS5 DC/ALARM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product is no longer available, Data sheet for information only



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 items
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30T00:00:00+01:00
Alternative product	ACT20P-UI-2RCO-DC-S

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Technical data

Approvals

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

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	17.5 mm	Width (inches)	0.689 inch
Length	92.4 mm	Length (inches)	3.6378 inch
Net weight	110.1 g		

Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...55 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	40 °C / 93 % rel. humidity, no condensation

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	369 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

Input

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

Output (digital)

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

General data

Accuracy	Repeat accuracy: max. ± 0.3% of measuring range end value (10 V/ 20 mA)	Protection degree	IP20
Status indicator	LED green ON: OK, LED red ON: alarm (per channel)	Supply voltage	24 V DC ± 25 %

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Mounting rail	TS 35	Power consumption	Typ.: 1 W both relays picked up
Temperature coefficient	≤ 500 ppm/K	Nominal power consumption	2 VA
Configuration	DIP switch, Potentiometer		

Insulation coordination

Impulse withstand voltage	4 kV	EMC standards	EN 61000-4-2, -3, -4, -5, -6
Surge voltage category	III	Pollution severity	2
Galvanic isolation	3-way isolator	Insulation voltage	2 kVeff / 5 s
Rated voltage	300 V		

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

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.

Classifications

ETIM 6.0	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ETIM 9.0	EC002654
ETIM 10.0	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
ECLASS 13.0	27-21-01-22	ECLASS 14.0	27-21-01-22
ECLASS 15.0	27-21-01-22		

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	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.

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Technical data

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 temperature range
0 °C...+55 °C Secure isolation EN 50178, 3-way Isolation up to 4 kV
Test voltage 2 kVeff / 5s Input / Output/ Supply
Rated voltage
300 V AC/DC at overvoltage category III and pollution degree 2
Approvals cULus
Type
WAS5 DC/Alarm

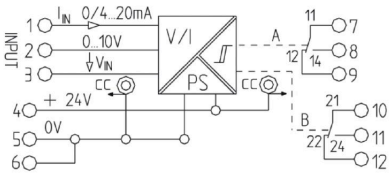
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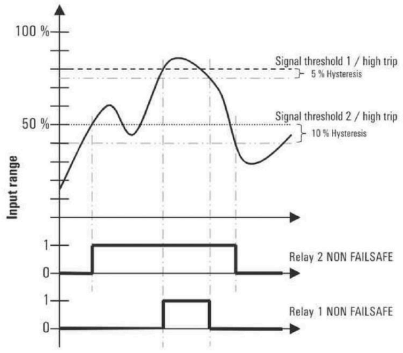
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Drawings

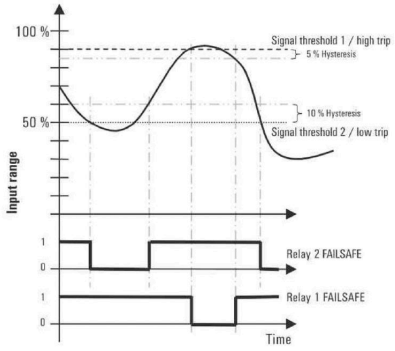
Connection diagram



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