

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
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
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 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

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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Classifications

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

Tender specification sheets

Long specification	<p>Limit-value monitoring component for DC-current-/ voltage standard signals with relay output and 3-way electrical isolation.</p> <p>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.</p> <p>The switching behaviour (high/low trip, fail-safe) can be selected using DIP switches.</p> <p>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</p> <p>Dimensions: L/W/H 92.4/ 22.5/ 112.4 mm</p>	Short specification	<p>Limit-value monitoring component for DC-current/voltage standard signals with relay output and 3-way electrical isolation.</p> <p>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.</p> <p>The switching behaviour (high/low trip, fail-safe) can be selected using DIP switches.</p> <p>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.</p>
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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
kV_{eff} / 5s Input / Output/
Supply
Rated
voltage
300 V AC/DC at
overvoltage category III
and pollution degree 2
Approvals cULus
Type
WAS5 DC/Alarm

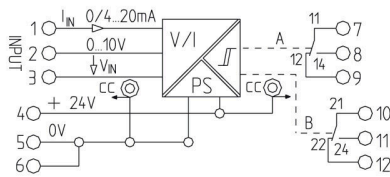
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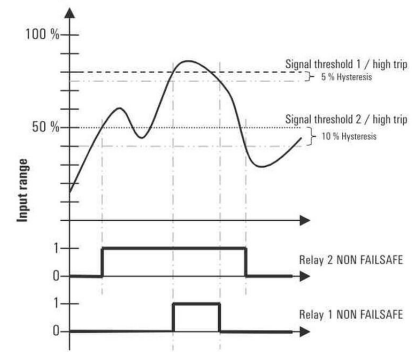
Drawings

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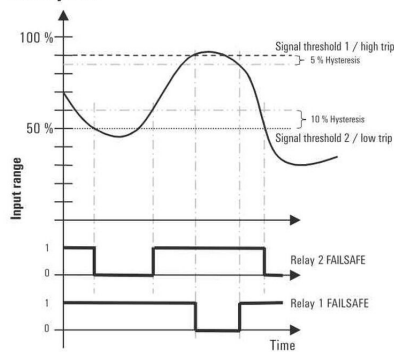
Connection diagram



Example 1



Example 2



Switch position/setting options

function	SW 1			
	1	2	3	4
Channel A High Trip	■			
Channel A Low Trip	□			
Channel B High Trip		■		
Channel B Low Trip		□		
FAILSAFE, Channel 1 & 2			□	□
NON FAILSAFE, Chan. 1 & 2			■	■

■ = on
 □ = off

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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	40081908883621	
Qty.	60 ST	
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 ST	
Type	ZQV 2.5N/2 BL	Version
Order No.	1717990000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 ST	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 ST	

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/5 MC NE WS	Version
Order No.	1635000000	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 ST	