

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.	8543820000
Type	WAS5 DC/ALARM
GTIN (EAN)	4032248181230
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30
Alternative product	7940045760

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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
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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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 frequency	20 Hz	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
Galvanic isolation	3-way isolator	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

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 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

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www.weidmueller.com**Technical data****Classifications**

ETIM 6.0	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ETIM 9.0	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

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Technical data

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 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

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

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www.weidmueller.com**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.
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Approvals

Approvals



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

Downloads

Approval/Certificate/Document of Conformity	Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
Product Change Notification	20220218 Technical change - WAVE series' signal conditioners WS WZ
User Documentation	Device description – instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

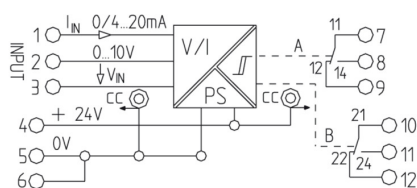
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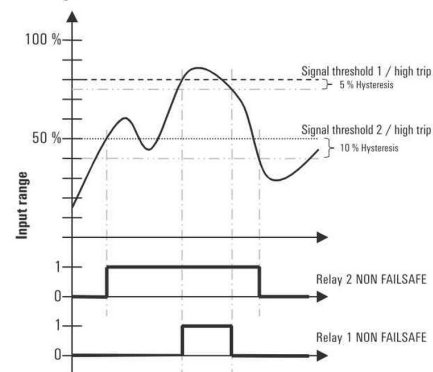
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Drawings

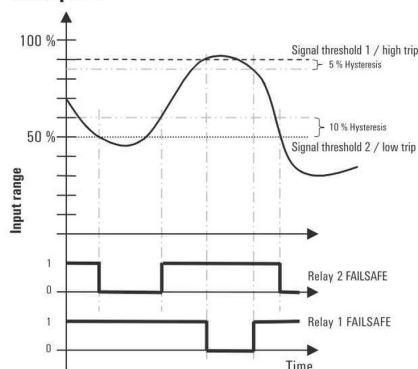
Connection diagram



Example 1



Example 2



Switch position/setting options

function	SW 1			
	1	2	3	4
Channel A High Trip	■			
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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www.weidmueller.com**Accessories****2.5 mm²**

2.5
mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

Type	ZQV 2.5N/2 BL	Version
Order No.	1717990000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 pc(s).	

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www.weidmueller.com**Accessories****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 pc(s).	