WAVESERIES
WAS5 DC/Alarm

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When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.
Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored
Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as
physical measurement and control variables.
Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing
The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their electrical and mechanical design is such that they require only minimal wiring efforts.
Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.
The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,
- frequency converters,
- potentiometer-measuring-transducers,
- bridge measuring transducers (strain gauges)
- trip amplifiers and modules for monitoring electrical and non-electrical process variables
- AD/DA converters
- displays
- calibration devices

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

General ordering data

Type	WAS5 DC/Alarm
Order No.	8940220000
Version	WAVESERIES, Limit value monitoring, 0(4)...20 mA, 1, 3 A, 2, Screw connection
GTIN (EAN)	4032248181230
Qty.	1 pc(s).

Creation date July 2, 2018 9:50:47 AM CEST

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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

Input

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

Output

Number of outputs	2	Contact assembly	2 CO contacts
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 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	Mounting rail	TS 35
Power consumption	Typically 1 W both relays picked up	Supply voltage	24 V DC ± 25 %
Temperature coefficient	≤ 500 ppm/K		

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

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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	27-21-01-22	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.
Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories

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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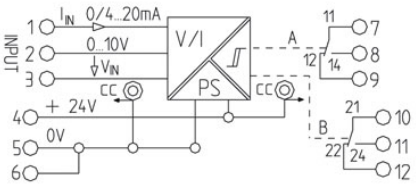
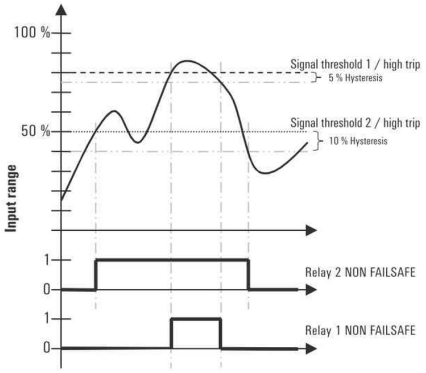
Drawings

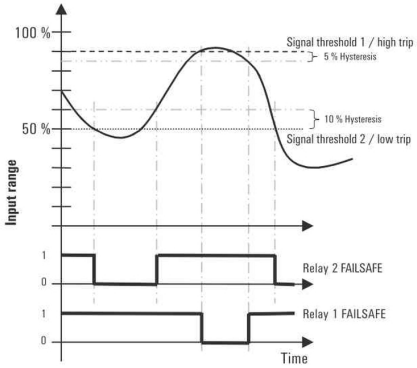
Connection diagram



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