

WAZ5 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. | 8543880000 |
| Type | WAZ5 DC/ALARM |
| GTIN (EAN) | 4032248181247 |
| Qty. | 1 Stück |

Erstellungs-Datum May 26, 2023 3:44:43 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Technische Daten

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 | 141 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 (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 | 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 |
| 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 |
| Voltage supply | 24 V DC ± 25 % | | |

Insulation coordination

| | | | |
|----------------------------------|---------------------------|---------------------------|------------------------------|
| Clearance and 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 |

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Technische Daten**Connection data**

| | | | |
|----------------------|--------------------------|----------------------------------|---------------------|
| Type of connection | Tension-clamp connection | Clamping range, rated connection | 1.5 mm ² |
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 2.5 mm ² |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002654 | ETIM 7.0 | EC002654 |
| ETIM 8.0 | 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 |

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Technische Daten

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 are adjustable using 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
Tension-clamp connection / Nominal cross-section 1.5 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 314 ± 43 RPO65T (10...90 %)
Auxiliary power 24 VDC +/- 25 %

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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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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 | |

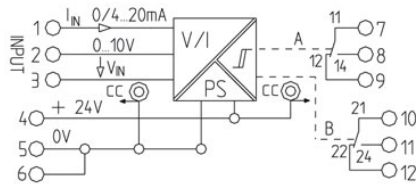
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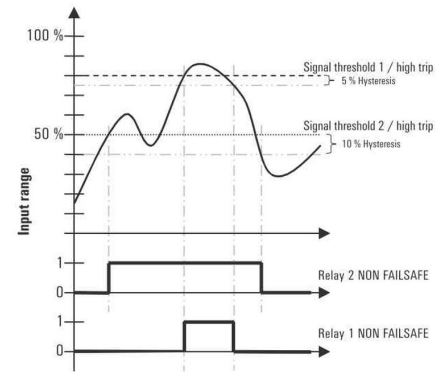
Zeichnungen

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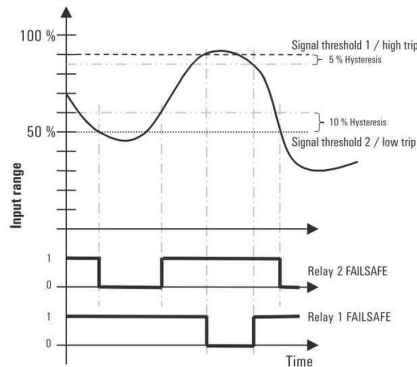
Connection diagram



Example 1



Example 2



Switch position/setting options

| function | SW 1 | | | |
|---------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | 1 | 2 | 3 | 4 |
| Channel A High Trip | <input checked="" type="checkbox"/> | | | |
| Channel A Low Trip | <input type="checkbox"/> | | | |
| Channel B High Trip | | <input checked="" type="checkbox"/> | | |
| Channel B Low Trip | | <input type="checkbox"/> | | |
| FAILSAFE, Channel 1 & 2 | | | <input type="checkbox"/> | <input type="checkbox"/> |
| NON FAILSAFE, Chan. 1 & 2 | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

= on
 = off