

Technical data sheet

Interface Technology · LCIS analogue/analogue converter

Input: 4–20 mA

Output: 4–20 mA

Insulation: 2.5 kV, 3-way isolation



Identification

| | |
|----------|-----------------------------|
| Type | LCIS-WAA-0538-62-S |
| Part No. | 750538.0000 |

Product version

| | |
|-------------------|-----|
| Hardware revision | 1.0 |
| Software version | 1.1 |
| Datasheet version | 03 |

Input

| | |
|------------------------|-----------------------|
| Input signal | 4–20 mA |
| Galvanic isolation I/O | 3-way isolation |
| Zero /Span | Production comparison |
| Input resistance | 100 Ω |

Output

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Output signal | 4–20 mA |
| Output current limit | Min. 3.6 mA or all output ranges 4 – 20 mA Max. 21.6 mA for all output ranges with nominal upper limit 20 mA |
| Max. load impedance at I-output | 500 Ω |
| Output voltage | <16 V |
| Residual ripple | <20 mV _{eff} |

Operating data

| | |
|----------|-------------------|
| Accuracy | 0.1 % FSR @ 23 °C |
|----------|-------------------|

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Part No. [750538.0000](#) • Datasheet version: 03

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| | |
|-----------------------------|------------------|
| Linearity error | 0.05 % FSR |
| Rise time (10-90%) | 6 ms |
| Build-up time (Accuracy 1%) | 17 ms |
| Temperature coefficient | <150 ppm / K FSR |
| Critical frequency | 30 Hz @ 3 dB |

General

| | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated voltage U_N | AC/DC 24 V |
| Current Consumption | 22 mA |
| Status indication | LED green |
| Input/output protection | Overvoltage, current input with PTC fuse, short circuit-proof output |
| Insulation voltage input / output | 2.5 kV _{eff} |
| Housing material | PA 6.6 (UL 94 V-0, NFF I2, F2) |
| Color of the housing | RAL 7012 Basalt grey |
| Mounting | DIN rail mountable TS35 (EN 60715) |
| Degree of protection | IP20 |
| Installation position | Any |
| Connection type | Screwed terminal Single wire 0.25 mm ² – 2.5 mm ² / AWG 24–14 Fine stranded wire with ferrule 0.25 mm ² – 1.5 mm ² / AWG 24–16 |
| Strip length | 6 mm |
| Dimensions (w × h × d) | 6.2 mm × 93.0 mm × 73.0 mm |
| Weight/unit | 0.029 kg |
| PU (units) | 1 |

General ambient conditions

| | |
|-----------------------------|------------------------------|
| Operation temperature range | -25 °C ... +60 °C |
| Storage temperature range | -40 °C ... +80 °C |
| Relative air humidity | 20 – 90 % RH, not condensing |
| Vibration resistance | 0.7 g acc. to EN 60068-2-6 |

Failure Rate Prediction (MTBF)

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards | Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500 |
| Failure rate at +45 °C | 504 fit |
| Failure rate at +45 °C | 1983891 h 1 fit equals one failure per 10 ⁹ component hours The indicated temperature is the mean component ambient temperature. |
| Comments | The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances Continuous operation 8760 h per year |

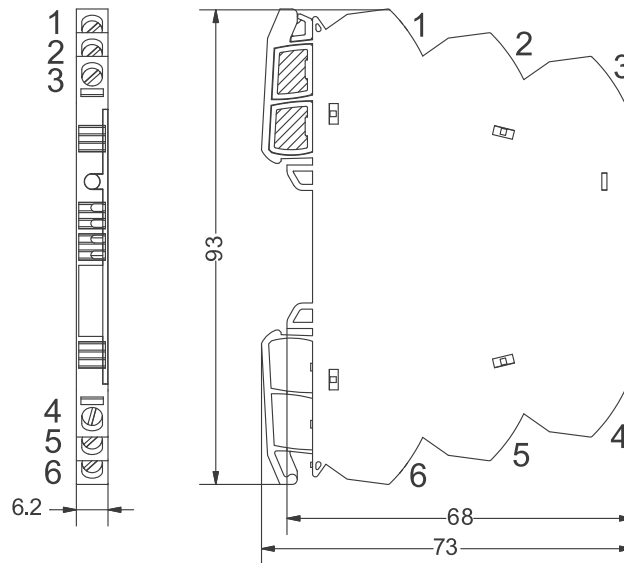
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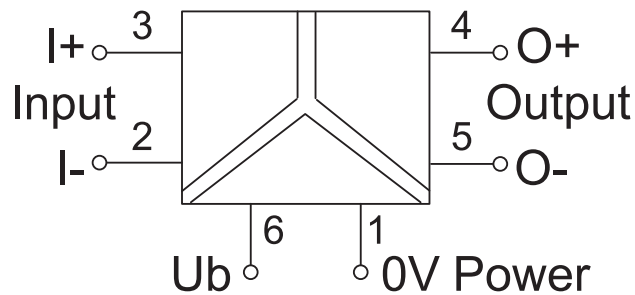
Certifications/Standards

| | |
|----------------|-------------------------------------------------------------------------------------|
| Conformity | CE UKCA |
| Certifications | cULus (E135145) DNV (TAA000024Y) |
| Standards | EN 60947-1 EN 60947-5-1 EN 61000-6-2 EN 61000-6-4 UL 508 DNV-CG-0339 |

Dimensions



PIN assignment



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Use

