

## Technical data sheet

Interface Technology · LCIS analogue/analogue converter

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Input: 4–20 mA

Output: 4–20 mA

Insulation: 2.5 kV, 3-way isolation



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### Identification

|          |                             |
|----------|-----------------------------|
| Type     | LCIS-WAA-0538-62-S          |
| Part No. | <a href="#">750538.0000</a> |

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### Product version

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

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### Input

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

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### Output

|                                 |                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Output signal                   | 4–20 mA                                                                                                         |
| Output current limit            | Min. 3.6 mA or all output ranges 4 – 20 mA<br>Max. 21.6 mA for all output ranges with nominal upper limit 20 mA |
| Max. load impedance at I-output | 500 $\Omega$                                                                                                    |
| Output voltage                  | <16 V                                                                                                           |
| Residual ripple                 | <20 mV <sub>eff</sub>                                                                                           |

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### Operating data

|                             |                   |
|-----------------------------|-------------------|
| Accuracy                    | 0.1 % FSR @ 23 °C |
| Linearity error             | 0.05 % FSR        |
| Rise time (10-90%)          | 6 ms              |
| Build-up time (Accuracy 1%) | 17 ms             |
| Temperature coefficient     | <150 ppm / K FSR  |

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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 <sub>eff</sub>                                                                                                                                                                  |
| Housing material                  | PA 6.6 (UL 94 V-0, NFF I2, F2)                                                                                                                                                         |
| Color of the housing              | RAL 7012<br>Basalt grey                                                                                                                                                                |
| Mounting                          | DIN rail mountable TS35<br>(EN 60715)                                                                                                                                                  |
| Degree of protection              | IP20                                                                                                                                                                                   |
| Installation position             | Any                                                                                                                                                                                    |
| Connection type                   | Screwed terminal<br>Single wire<br>0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> / AWG 24–14<br>Fine stranded wire with ferrule<br>0.25 mm <sup>2</sup> – 1.5 mm <sup>2</sup> / 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<br>Failure Rates of Components – Expected values: SN 29500     |
| Failure rate at +45 °C | 504 fit                                                                                                                                                                                    |
| Failure rate at +45 °C | 1983891 h<br>1 fit equals one failure per 10 <sup>9</sup> component hours<br>The indicated temperature is the mean component ambient temperature.                                          |
| Comments               | The results are valid under following conditions:<br>Automotive environment or industrial areas without extreme dust levels and harmful substances<br>Continuous operation 8760 h per year |

#### Approvals/Standards

|            |            |
|------------|------------|
| Conformity | CE<br>UKCA |
|------------|------------|

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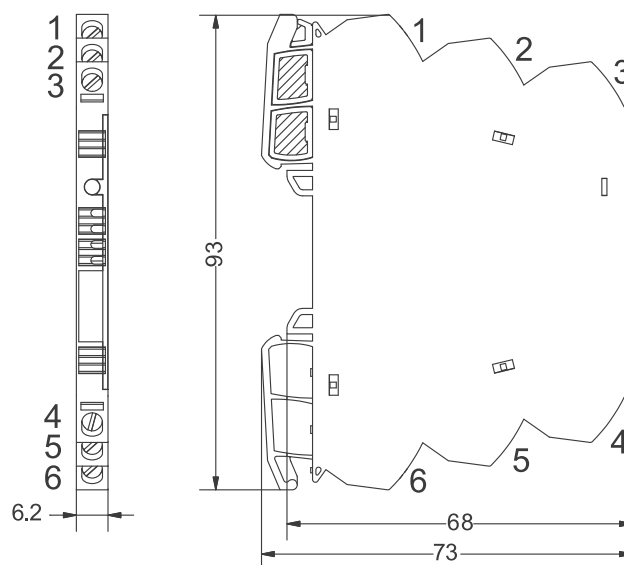
#### Approvals

cULus (E135145)  
DNV (TAA000024Y)

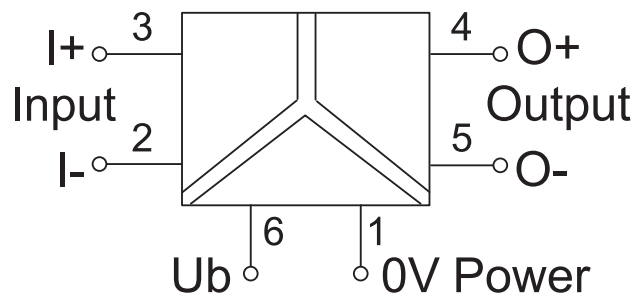
#### Standards

EN 60947-1  
EN 60947-5-1  
EN 61000-6-2  
EN 61000-6-4  
UL 508  
DNV-CG-0339

#### Dimensions



#### PIN assignment



#### Use

