



|                                 |                                                                                                                                    |                     |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Identification</b>           | Type                                                                                                                               | LCIS-WAA-1537-62-PI |
|                                 | Part-No.                                                                                                                           | 751537.0000         |
| <b>Description</b>              |                                                                                                                                    |                     |
|                                 | Input: 4–20 mA<br>Output: 0–20 mA<br>Insulation: 2.5 kV, 3-way isolation                                                           |                     |
| <b>Input</b>                    |                                                                                                                                    |                     |
| Input signal                    | 4–20 mA                                                                                                                            |                     |
| Galvanic isolation I/O          | 3-way isolation                                                                                                                    |                     |
| Zero /Span                      | Production comparison                                                                                                              |                     |
| Input resistance                | 100 $\Omega$                                                                                                                       |                     |
| <b>Output</b>                   |                                                                                                                                    |                     |
| Output signal                   | 0–20 mA                                                                                                                            |                     |
| Output current limit            | min. 0 mA for all output ranges with nominal lower limit 0 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>                                                                                                              |                     |
| <b>Operating data</b>           |                                                                                                                                    |                     |
| Accuracy                        | 0.1 % FSR @ 23 °C                                                                                                                  |                     |

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Part-No. 751537.0000

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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                                                                                                                                                                  |
| Operation voltage range           | AC 19.2–26.4 V / DC 18.0–31.2 V                                                                                                                                             |
| 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)                                                                                                                                       |
| Protection class                  | IP20                                                                                                                                                                        |
| Installation position             | any                                                                                                                                                                         |
| Connection type                   | Push-In<br>single wire<br>0.25 mm <sup>2</sup> –2.5 mm <sup>2</sup> / AWG 20–14<br>fine stranded wire with ferrule<br>0.25 mm <sup>2</sup> –1.5 mm <sup>2</sup> / AWG 20–16 |
| Operation temperature range       | -25 °C ... +60 °C                                                                                                                                                           |
| Storage temperature range         | -40 °C ... +80 °C                                                                                                                                                           |
| Dimensions (w × h × d)            | 6.2 × 93.0 × 73.0 mm                                                                                                                                                        |
| Weight                            | 0.029 kg/piece                                                                                                                                                              |
| PU                                | 1 piece                                                                                                                                                                     |
| Certifications                    | cULus (E135145)<br>DNV GL                                                                                                                                                   |
| Standards                         | EN 60947-5-1                                                                                                                                                                |
| PU                                | 1 piece                                                                                                                                                                     |

### 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.                                      |

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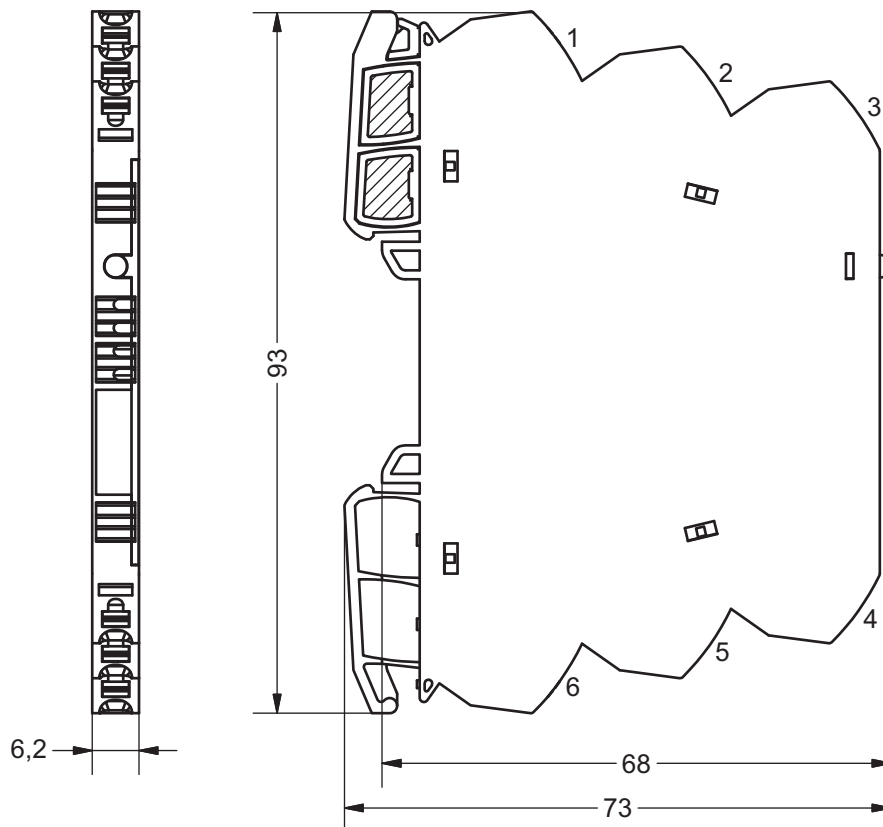
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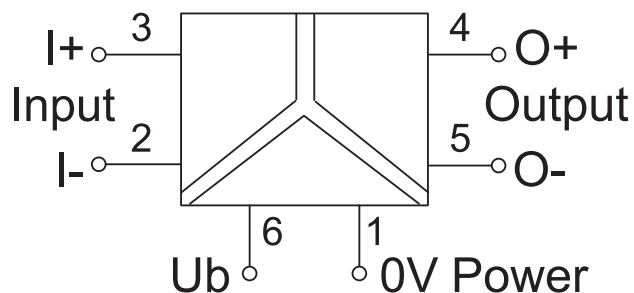
### Comments

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

### Dimensions



### PIN assignment



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