

## Technical data sheet

Interface Technology · Microcompact analog/analog splitter

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**Input: 0–10 V, 0–20 mA, 4–20 mA adjustable**

**Output: 2 × 0–10 V, 0–20 mA, 4–20 mA**

**Insulation: 2.5 kV, 4-way isolation**



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### Identification

|          |                        |
|----------|------------------------|
| Type     | LCON AASP D 806210     |
| Part No. | <a href="#">750321</a> |

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### Product version

|                   |    |
|-------------------|----|
| Datasheet version | 03 |
|-------------------|----|

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### Input

|                        |  |
|------------------------|--|
| Input variable         | Analogue signals   |
| Measurement input      | 0–10 V, 0–20 mA, 4–20 mA adjustable via switch   |
| Galvanic isolation I/O | 4-way isolation  |
| Step response (10–90%) | 4 ms–500 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 80 ms) |
| Parameterisation       | DIP switch   |
| Zero /Span             | Production comparison  |
| Input resistance       | >500 k $\Omega$ @ 0–10 V, <100 $\Omega$ @ 0–20 mA, <100 $\Omega$ @ 4–20 mA             |

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### Output

|  |   |
|--|---|
| Output signal                                      | 0–10 V, 0–20 mA, 4–20 mA                    |
| Max. load impedance at I-output                    | 400 $\Omega$ @ 0–20 mA, 4–20 mA             |
| Min. load impedance at U-output                    | 2 k $\Omega$ @ 0–10 V                       |
| Limitation for exceeding measurement range         | yes, switchable                             |
| Max. modulation range/output signal/output current | 10.5 V @ 0–10 V<br>21 mA @ 0–20 mA, 4–20 mA |
| Residual ripple                                    | <20 mV <sub>eff</sub>                       |
| Parameterisation                                   | DIP switch                                  |

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### Operating data

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

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SYSTEMATIC TECHNOLOGY

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|                    |                                       |
|--------------------|---------------------------------------|
| Linearity error    | ±0.1 % FSR                            |
| Critical frequency | 100 Hz (filter off), 5 Hz (filter on) |

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#### General

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|                                   |  |
|-----------------------------------|--|
| Rated voltage $U_N$               | DC 24 V  |
| Rated current                     | 13 mA  |
| Status indication                 | LED green/red  |
| Input/output protection           | Overvoltage, current input with PTC fuse, short circuit-proof output |
| Temperature error                 | <150 ppm/K FSR   |
| Data storage                      | Flash  |
| Insulation voltage input / output | 2.5 kV <sub>eff</sub>  |
| Resolution                        | 16-bit   |
| Configuration                     | Switch   |
| Housing material                  | PA 6.6 (UL 94 V-0)   |
| Color of the housing              | light grey   |
| Mounting                          | DIN rail mountable TS35<br>(EN 60715)                                |
| Degree of protection              | IP20   |
| Installation position             | Any  |
| Connection type                   | Screw terminal<br>0.14 mm <sup>2</sup> – 1.5 mm <sup>2</sup>         |
| Dimensions (w × h × d)            | 6.2 mm × 90.0 mm × 115.5 mm  |
| Weight/unit                       | 0.05 kg  |
| PU (units)                        | 1  |

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#### General ambient conditions

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|                             |                                   |
|-----------------------------|-----------------------------------|
| Operation temperature range | -40 °C ... +70 °C                 |
| Storage temperature range   | -40 °C ... +85 °C                 |
| Relative air humidity       | 10 % – 95 %, without condensation |
| Vibration resistance        | 4 g acc. to EN 60068-2-6          |
| Shock resistance            | 15 g acc. EN 60068-2-27           |

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#### Failure Rate Prediction (MTBF)

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|                        |  |
|------------------------|--|
| 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 | 663 fit  |
| Failure rate at +45 °C | 1509179 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 |

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#### Approvals/Standards

|            |  |
|------------|--|
| Conformity | CE<br>UKCA   |
| Approvals  | cULus (E135145)<br>cULus (E319134) use in Class I, Div. 2, Hazardous Locations   |
| Standards  | EN 60947-1<br>EN 60947-5-1<br>UL 508<br>UL 121201<br>DNVGL-CG-0339<br>Temperature Class D – not certified<br>Humidity Class B – not certified<br>Vibration Class B – not certified<br>EMC Class A – not certified<br>Enclosure Class A – not certified |

#### Equipment/Spare parts

##### Accessories

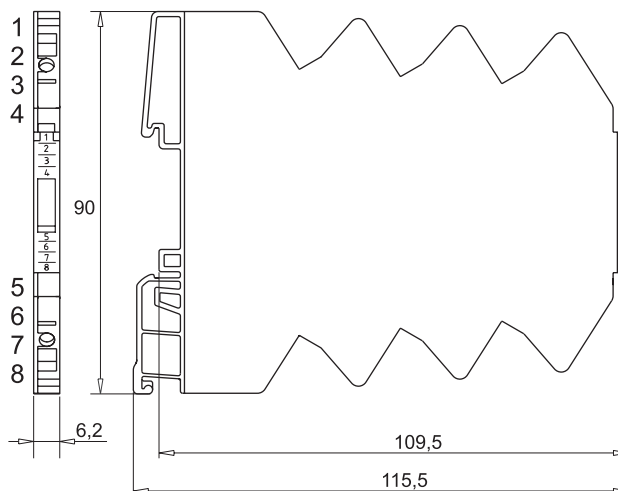
Jumper comb 6 A (VE 10)  
2-pin: 762802 (red), 762803 (white), 762804 (**blue**)  
3-pin: 762805 (red), 762806 (white), 762807 (**blue**)  
4-pin: 762812 (red), 762813 (white), 762814 (**blue**)  
8-pin: 762822 (red), 762823 (white), 762824 (**blue**)  
16-pin: 762832 (red), 762833 (white), 762834 (**blue**)  
**Marker holder** 4×11 mm white, Part-No. 681313, PU: 100 units  
**Laser label** 4.23×11 mm (sheet with 1056 labels), Part-No. 681034, PU:  
1 unit

#### Notes and Comments

##### Note

For the parameterization you need the USB service cable, LCON ZB USB, part number 750894 and the software Lütze HART-DTM and PACTware. The current versions can be found in the download area of the respective product page on the LÜTZE website.

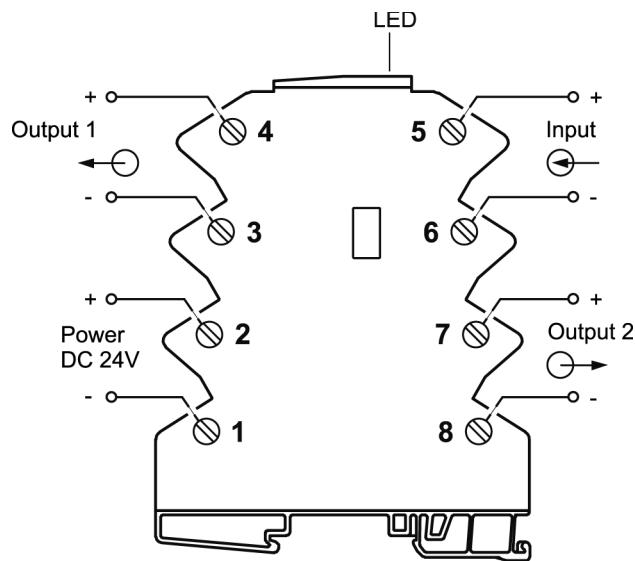
#### Dimensions



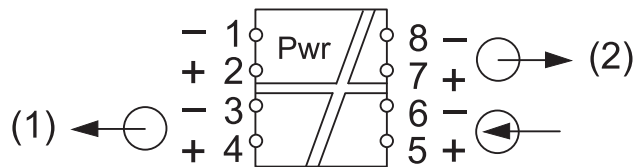
# Technical data sheet

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### PIN assignment



### PIN assignment



### Range adjustment

| S1 ● → Switch On      |       |   |          |   |          |   |   |   |
|-----------------------|-------|---|----------|---|----------|---|---|---|
| Range                 | 1     | 2 | 3        | 4 | 5        | 6 | 7 | 8 |
| 0 – 10V               | ●     |   |          | ● |          | ● |   |   |
| 0 – 20mA              |       | ● |          | ● |          |   | ● |   |
| 4 – 20mA              | ●     | ● |          | ● | ●        | ● | ● |   |
|                       | Input |   | Output 1 |   | Output 2 |   |   |   |
| Filter Off            |       |   |          |   |          |   |   |   |
| Filter On             |       |   |          |   |          |   | ● |   |
| Output Limitation Off |       |   |          |   |          |   |   |   |
| Output Limitation On  |       |   |          |   |          |   |   | ● |

See instruction leaflet for details