# Technical data sheet · Interface Technology

Microcompact analog/analog splitter

| | | |
|---|---|---|
| **Identification** | Type | LCON AASP D 806210 |
| | Part-No. | 750321 |

| **Product version** | |
|---|---|
| Datasheet version | 01 |

| **Description** | |
|---|---|
| | Input: 0–10 V, 0–20 mA, 4–20 mA adjustable<br>Output: 2 × 0–10 V, 0–20 mA, 4–20 mA<br>Insulation: 2.5 kV, 4-way isolation |

| **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%) | 10 ms–800 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 150 ms), filter stage 1 = 10 ms (2000 Hz), filter stage 2 = 15 ms (530 Hz), filter stage 3 = 50 ms (50 Hz), filter stage 4 = 150 ms (20 Hz), filter stage 5 = 800 ms (4 Hz) |
| Parameterisation | DIP switch |
| Zero /Span | Production comparison |
| Input resistance | >500 kΩ @ 0–10 V, <100 Ω @ 0–20 mA, <100 Ω @ 4–20 mA |

| **Output** | |
|---|---|
| Output signal | 0–10 V, 0–20 mA, 4–20 mA |



USA: LUTZE INC.
13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

| | |
|---|---|
| Max. load impedance at I-output | 400 Ω @ 0–20 mA, 4–20 mA |
| Min. load impedance at U-output | 2 kΩ @ 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 $mV_{eff}$ |
| Parameterisation | DIP switch |

| **Operating data** | |
|---|---|
| Accuracy | 0.1 % FSR @ 23 °C |
| Linearity error | ±0.1 % FSR |
| Critical frequency | 100 Hz (filter off), 5 Hz (filter on) |

| **General** | |
|---|---|
| Rated voltage $U_N$ | DC 24 V |
| Operation voltage range | 16.8–30 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 $kV_{eff}$ |
| 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) |
| Protection class | IP20 |
| Installation position | any |
| Connection type | Screw terminal<br>0.14 $mm^2$ – 1.5 $mm^2$ |
| Operation temperature range | -40 °C … +70 °C |
| Storage temperature range | -40 °C … +85 °C |
| Dimensions (w × h × d) | 6.2 × 90.0 × 115.5 mm |
| Weight | 0.050 kg/piece |
| PU | 1 piece |
| Certifications | cULus (E135145)<br>Cl.1 Div2, Gr. A, B, C, D, T4A<br>DNV GL CG-0339 |
| Standards | EN 60947-5-1 |



USA: LUTZE INC.
13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

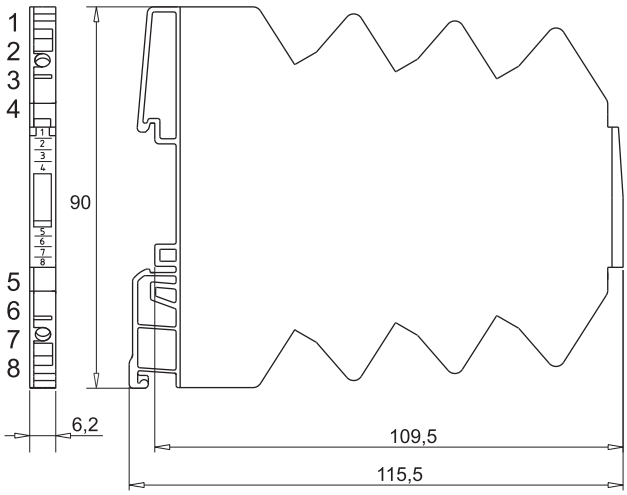
United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk

| | |
|---|---|
| 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 | 663 fit |
| Failure rate at +45 °C | 1509179 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:<br>Automotive environment or industrial areas without extreme dust levels and harmful substances<br>Continuous operation 8760 h per year |

| | |
|---|---|
| **Comments** | NOTE: The device can be configured using the DIP switches on the side. |

**Dimensions**

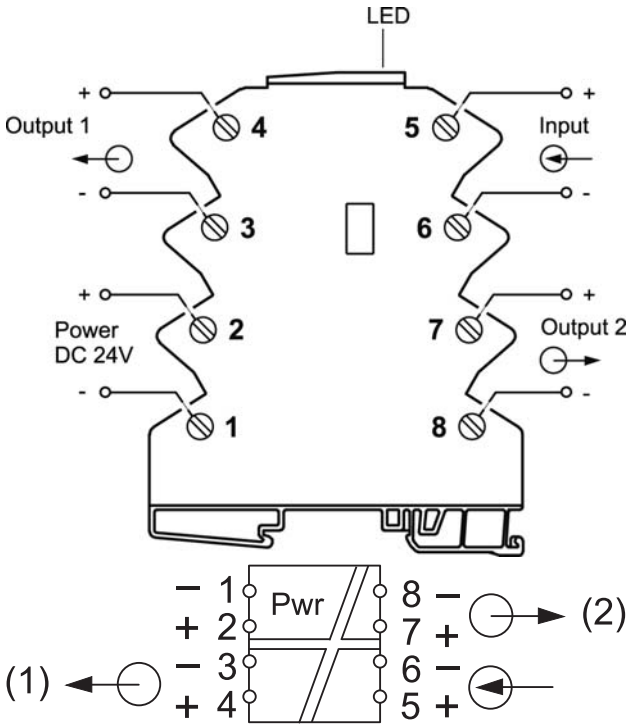





USA: LUTZE INC.
13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk

**PIN assignment**




**Range adjustment**

| Range | S1 ● → Switch On 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



USA: LUTZE INC.
13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223
www.lutze.com • info@lutze.com

United Kingdom: LÜTZE Ltd.
Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY