

Data sheet

6ES7134-4LB02-0AB0



*** Spare part *** SIMATIC DP, Electronics module 2 AI U High Feature f. ET200S, 15 mm width, Cycle time per module: 0.5 ms, +/-10V; 15 bit+sign, +/-5 V; 15 bit+sign, 1.5 V; 15 bit, Operational limit +/-0.1% with SF LED (group fault)

| General information | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Product function | |
| • Isochronous mode | Yes |
| Supply voltage | |
| Load voltage L+ | |
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | Yes |
| Input current | |
| from load voltage L+ (without load), max. | 55 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| Output voltage | |
| Power supply to the transmitters | |
| • present | No |
| Power loss | |
| Power loss, typ. | 0.85 W |
| Address area | |
| Address space per module | |
| • Address space per module, max. | 4 byte |
| Analog inputs | |
| Number of analog inputs | 2 |
| permissible input voltage for voltage input (destruction limit), max. | 35 V; 35 V continuous; 75 V for max. 1 ms |
| Cycle time (all channels) max. | 0.5 ms; 0.5 ms for 2 channels without noise suppression, 18 / 21 ms per channel with noise suppression |
| Input ranges (rated values), voltages | |
| • 1 V to 5 V | Yes |
| — Input resistance (1 V to 5 V) | 800 kΩ |
| • -10 V to +10 V | Yes |
| — Input resistance (-10 V to +10 V) | 800 kΩ |
| • -5 V to +5 V | Yes |
| — Input resistance (-5 V to +5 V) | 800 kΩ |
| Cable length | |
| • shielded, max. | 200 m |
| Analog value generation for the inputs | |
| Integration and conversion time/resolution per channel | |
| • Resolution with overrange (bit including sign), max. | 16 bit; 0 to 5 V: 15 bit, ±10 V: 16 bit, ±5 V: 16 bit |
| • Integration time, parameterizable | Yes |
| • Interference voltage suppression for interference frequency f1 in Hz | 60 / 50 Hz / no |

| | |
|-------------------------------------------------------------|-----------------------------------------------------------------------------|
| • Conversion time (per channel) | 0.04 ms; Without noise suppression 17/20 ms per channel with error |
| Smoothing of measured values | |
| • parameterizable | Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time |
| • Step: None | Yes; 1x |
| • Step: low | Yes; 4x |
| • Step: Medium | Yes; 16x |
| • Step: High | Yes; 32x |
| Encoder | |
| Connection of signal encoders | |
| • for voltage measurement | Yes |
| Errors/accuracies | |
| Operational error limit in overall temperature range | |
| • Voltage, relative to input range, (+/-) | 0.1 %; 0.2% without interference frequency suppression |
| Basic error limit (operational limit at 25 °C) | |
| • Voltage, relative to input range, (+/-) | 0.05 %; 0.1% without interference frequency suppression |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Hardware interrupt | Yes |
| Diagnoses | |
| • Wire-break | Yes; Measuring range 1 to 5 V only |
| • Group error | Yes |
| • Overflow/underflow | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| Parameter | |
| Remark | 12 bytes, 4 bytes in compatibility mode |
| Group diagnostics | Disable / enable |
| Overflow/underflow | Disable / enable |
| Potential separation | |
| Potential separation analog inputs | |
| • between the channels | No; however, increased permissible potential difference between the inputs. |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L+ | Yes |
| Isolation | |
| Isolation tested with | 500 V DC |
| Dimensions | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| Weights | |
| Weight, approx. | 45 g |
| Classifications | |

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-24-26-01 |
| eClass | 12 | 27-24-26-01 |
| eClass | 9.1 | 27-24-26-01 |
| eClass | 9 | 27-24-26-01 |
| eClass | 8 | 27-24-26-01 |
| eClass | 7.1 | 27-24-26-01 |
| eClass | 6 | 27-24-26-01 |
| ETIM | 10 | EC001596 |
| ETIM | 9 | EC001596 |
| ETIM | 8 | EC001596 |
| ETIM | 7 | EC001596 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[Manufacturer Declaration](#)

[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations

[Metrological Approval](#)



[EM](#)



For use in hazardous locations

Maritime application



[Miscellaneous](#)

[CCC-Ex](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



Maritime application

[CCS \(China Classification Society\)](#)

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