SIEMENS

## Data sheet 6ES7131-4BD01-0AB0



*** Spare part *** SIMATIC DP, 5 electronic modules for ET 200S, 4 DI High Feature 24 V DC, 15 mm width, with param. input delay Diagnostics encoder short circuit with SF LED (group fault) 5 units per packing unit

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V; From power module |
| Reverse polarity protection | Yes |
| **Input current** | |
| from supply voltage L+, max. | Dependent on encoder |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Encoder supply** | |
| Type of output voltage | min. L+ (-0.5 V), under load |
| Short-circuit protection | Yes; Electronic |
| Output current | |
| ● Rated value | 500 mA |
| ● permissible range, lower limit | 0 mA |
| ● permissible range, upper limit | 500 mA |
| **Power loss** | |
| Power loss, typ. | 0.7 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 1 byte |
| ● with packing | 4 bit |
| **Digital inputs** | |
| Number of digital inputs | 4 |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| Input voltage | |
| ● Type of input voltage | DC |
| ● Rated value (DC) | 24 V |
| ● for signal "0" | -30 to +5 V |
| ● for signal "1" | +11 to +30V |
| Input current | |
| ● for signal "1", typ. | 8 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | Yes; 0.1 / 0.5 / 3 / 15 ms |
| — at "0" to "1", min. | 0.05 / 0.4 / 2.7 / 14.85 |
| — at "0" to "1", max. | 0,15 / 0,6 / 3,3 / 15,15 |
| — at "1" to "0", min. | 0.05 / 0.4 / 2.7 / 14.85 |
| — at "1" to "0", max. | 0,15 / 0,6 / 3,3 / 15,15 |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |


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| | |
|---|---|
| **Encoder** | |
| Connectable encoders | |
| ● 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes |
| Diagnoses | |
| ● Short-circuit | Yes; Short-circuit of outputs to ground; module by module |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital input (green) | Yes; per channel |
| **Potential separation** | |
| Potential separation digital inputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 35 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-04 |
| eClass | 14 | 27-24-26-04 |
| eClass | 12 | 27-24-26-04 |
| eClass | 9.1 | 27-24-26-04 |
| eClass | 9 | 27-24-26-04 |
| eClass | 8 | 27-24-26-04 |
| eClass | 7.1 | 27-24-26-04 |
| eClass | 6 | 27-24-26-04 |
| ETIM | 10 | EC001599 |
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Manufacturer Declaration | Miscellaneous

**General Product Approval** | **EMV**

China RoHS | Manufacturer Declaration

**For use in hazardous locations**


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FM

| For use in hazardous locations | | Maritime application | | | |
|---|---|---|---|---|---|
| Miscellaneous | CCC-Ex | | | | |

| Maritime application | | | |
|---|---|---|---|
| NK / Nippon Kaiji Kyokai | | | CCS (China Classification Society) |

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