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## Data sheet 6ES7131-4BD01-0AA0

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DI STANDARD 24V DC, 15 MM WIDTH, 5 PIECES PER PACKAGING UNIT



| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | |
| • 24 V DC | Yes; From power module |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| 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 |
| Output current | |
| • Rated value | 500 mA |
| • permissible range | 0 to 500 mA |
| **Power loss** | |
| Power loss, typ. | 0.7 W |
| **Address area** | |


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| | |
|---|---|
| Address space per module | |
| • with packing | 4 bit |
| • without packing | 1 byte |
| **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 +5V |
| • for signal "1" | +15 to +30V |
| Input current | |
| • for signal "1", typ. | 7 mA; at 24 V |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | No |
| — at "0" to "1", min. | 2 ms; typically 3 ms |
| — at "0" to "1", max. | 4.5 ms |
| — at "1" to "0", min. | 2 ms; typically 3 ms |
| — at "1" to "0", max. | 4.5 ms |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| **Encoder** | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |
| **Interrupts/diagnostics/status information** | |
| Diagnostic functions | No |
| Diagnostics indication LED | |
| • Group error SF (red) | No |
| • Status indicator digital input (green) | Yes; per channel |
| **Parameter** | |
| Remark | 1 byte |
| **Potential separation** | |
| Potential separation digital inputs | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |


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| Permissible potential difference | |
|---|---|
| between different circuits | 75 V DC/60 V AC |

| Isolation | |
|---|---|
| Isolation tested with | 500 V DC |

| Dimensions | |
|---|---|
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |

| Weights | |
|---|---|
| Weight, approx. | 35 g |

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