# SIEMENS

**Data sheet**                                       **6ES7321-1BP00-0AA0**

SIMATIC S7-300 digital input SM 321, isolated in groups of 16, 64 DI, 24 V DC, 3 ms, sink/source input terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required

| Supply voltage | |
|---|---|
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● Reverse polarity protection | Yes |
| **Input current** | |
| from backplane bus 5 V DC, max. | 100 mA |
| **Power loss** | |
| Power loss, typ. | 7 W |
| **Digital inputs** | |
| Number of digital inputs | 64 |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| Number of simultaneously controllable inputs | |
| all mounting positions | |
| — up to 40 °C, max. | 64 |
| — up to 60 °C, max. | 32 |
| horizontal installation | |
| — up to 40 °C, max. | 64 |
| — up to 60 °C, max. | 32 |
| vertical installation | |
| — up to 40 °C, max. | 32 |
| Input voltage | |
| ● Type of input voltage | DC |
| ● Rated value (DC) | 24 V |
| ● for signal "0" | -30 to +5 V |
| ● for signal "1" | 13 to 30V |
| Input current | |
| ● for signal "1", typ. | 4.2 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | No |
| — Rated value | 4.2 ms |
| — at "0" to "1", min. | 1.2 ms |
| — at "0" to "1", max. | 4.8 ms |
| — at "1" to "0", min. | 1.2 ms |
| — at "1" to "0", max. | 4.8 ms |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |
| **Encoder** | |
| Connectable encoders | |

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| | |
|---|---|
| ● 2-wire sensor | No |
| **Interrupts/diagnostics/status information** | |
| Alarms | No |
| Diagnostics function | No |
| Alarms | |
| ● Diagnostic alarm | No |
| ● Hardware interrupt | No |
| Diagnoses | |
| ● Diagnostic information readable | No |
| ● Wire-break | No |
| Diagnostics indication LED | |
| ● Group error SF (red) | No |
| ● Status indicator digital input (green) | Yes |
| ● Encoder supply Vs (green) | No |
| **Potential separation** | |
| Potential separation digital inputs | |
| ● between the channels | No |
| ● between the channels, in groups of | 16 |
| ● between the channels and backplane bus | Yes; Optocoupler |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **connection method** | |
| required front connector | Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 |
| **Dimensions** | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 112 mm |
| **Weights** | |
| Weight, approx. | 230 g |

| | |
|---|---|
| **last modified:** | 3/12/2024 ↗ |