

SIMATIC S7-1200, Digital input SB 1221, 4 DI, 5V DC 200kHz,
Sourcing input



Figure similar

General information

Product type designation SB 1221, DI 4x5 V DC 200 kHz

Input current

from backplane bus 5 V DC, typ. 40 mA

Power loss

Power loss, typ. 1 W

Digital inputs

Number of digital inputs 4; Current-sourcing

• in groups of 4

Input voltage

- Type of input voltage DC
- Rated value (DC) 5 V
- for signal "0" (L+ minus 1.0 V DC) ... L+ (2.2 ... 0 mA)
- for signal "1" 0 V ... (L+ minus 2.0 V DC (20 ... 5.1 mA))

Input current

| | |
|--|--|
| • for signal "0", max. (permissible quiescent current) | 2.2 mA |
| • for signal "1", min. | 5.1 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | Yes; 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms |
| for interrupt inputs | |
| — parameterizable | Yes |
| for technological functions | |
| — parameterizable | Yes |
| Cable length | |
| • shielded, max. | 50 m; shielded, twisted pair |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| • for status of the inputs | Yes |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| cULus | Yes |
| FM approval | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| Marine approval | Yes |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -20 °C |
| • max. | 60 °C |
| • horizontal installation, min. | -20 °C |
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | -20 °C |
| • vertical installation, max. | 50 °C |
| Ambient temperature during storage/transportation | |
| • min. | -40 °C |
| • max. | 70 °C |
| Air pressure acc. to IEC 60068-2-13 | |
| • Storage/transport, min. | 660 hPa |
| • Storage/transport, max. | 1 080 hPa |

| Relative humidity | |
|---|------------|
| • Operation at 25 °C without condensation, max. | 95 % |
| Mechanics/material | |
| Enclosure material (front) | |
| • Plastic | Yes |
| Dimensions | |
| Width | 38 mm |
| Height | 62 mm |
| Depth | 21 mm |
| Weights | |
| Weight, approx. | 35 g |
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