



Figure similar

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

| 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 |
| • for signal "1", typ. | 15 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 |

last modified: 3/12/2024 