

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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