

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	

<ul style="list-style-type: none"> • for signal "0", max. (permissible quiescent current) 	2.2 mA
<ul style="list-style-type: none"> • 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 μ s; 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	
<ul style="list-style-type: none"> • shielded, max. 	50 m; shielded, twisted pair
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Fall height, max. 	0.3 m; five times, in product package
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. 	-20 °C
<ul style="list-style-type: none"> • max. 	60 °C
<ul style="list-style-type: none"> • horizontal installation, min. 	-20 °C
<ul style="list-style-type: none"> • horizontal installation, max. 	60 °C
<ul style="list-style-type: none"> • vertical installation, min. 	-20 °C
<ul style="list-style-type: none"> • vertical installation, max. 	50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. 	-40 °C
<ul style="list-style-type: none"> • max. 	70 °C
Air pressure acc. to IEC 60068-2-13	
<ul style="list-style-type: none"> • Storage/transport, min. 	660 hPa
<ul style="list-style-type: none"> • 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:** 08/25/2020