

SIMATIC S7-1200, Digital input SB 1221, 4 DI, 24 V DC 200 kHz,
Sourcing input



Figure similar

General information	
Product type designation	SB 1221, DI 4x24 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)	24 V
• for signal "0"	(L+ minus 5.0 V DC) ... L+ (1.4 ... 0 mA)
• for signal "1"	0 V ... (L+ minus 10 V DC (10 ... 2.9 mA))
Input current	

• for signal "0", max. (permissible quiescent current)	1.4 mA
• for signal "1", min.	2.9 mA
• for signal "1", typ.	7 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	
• 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
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: 12/09/2020 