



Figure similar

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

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	
• 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 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	
Classifications			
		Version	Classification
	eClass	14	27-24-22-04
	eClass	12	27-24-22-04
	eClass	9.1	27-24-22-04
	eClass	9	27-24-22-04
	eClass	8	27-24-22-04
	eClass	7.1	27-24-22-04
	eClass	6	27-24-22-04
	ETIM	10	EC001419
	ETIM	9	EC001419
	ETIM	8	EC001419
	ETIM	7	EC001419
	IDEA	4	3566
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
 EG-Konf.  Manufacturer Declaration Miscellaneous China RoHS  UL			
General Product Approval		EMV	For use in hazardous locations



[FM](#)

For use in hazardous locations



[Miscellaneous](#)

[CCC-Ex](#)



Maritime application

[NK / Nippon Kaiji Ky-
okai](#)



[CCS \(China Classifica-
tion Society\)](#)

[KR \(Korean Register
of Shipping\)](#)

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