SIEMENS

Data sheet

6ES7321-1BH10-0AA0



SIMATIC S7-300, Digital input SM 321, isolated, 16 DI, 24 V DC, 1x 20-pole, 0.05 ms input delay

Figure simila

Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	28.8 V	
Input current		
from backplane bus 5 V DC, max.	110 mA	
Power loss		
Power loss, typ.	3.8 W	
Digital inputs		
Number of digital inputs	16	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Number of simultaneously controllable inputs		
horizontal installation		
— up to 40 °C, max.	16	
— up to 60 °C, max.	16	
vertical installation		
— up to 40 °C, max.	16	
Input voltage		
 Type of input voltage 	DC	
 Rated value (DC) 	24 V	
• for signal "0"	-30 to +5 V	
• for signal "1"	13 to 30V	
Input current		
• for signal "1", typ.	7 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
parameterizable	No	
— at "0" to "1", min.	25 µs	
— at "0" to "1", max.	75 µs	
— at "1" to "0", min.	25 µs	
— at "1" to "0", max.	75 µs	
Cable length		
shielded, max.	1 000 m	
unshielded, max.	600 m	

Encoder	
Connectable encoders	
2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	1.5 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostics indication LED	
 Status indicator digital input (green) 	Yes
Potential separation	
Potential separation digital inputs	
 between the channels 	No
 between the channels, in groups of 	16
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	200 g
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