SIEMENS

Data sheet

6ES7321-1BP00-0AA0



SIMATIC S7-300 digital input SM 321, Isolated in groups of 16, 64 DI, 24 V DC, 3ms, Sink/source input Terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required

Figure similar

Supply voltage		
Load voltage L+		
 Rated value (DC) 	24 V	
 Reverse polarity protection 	Yes	
Input current		
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	7 W	
Digital inputs		
Number of digital inputs	64	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Number of simultaneously controllable inputs		
all mounting positions		
— up to 40 °C, max.	64	
— up to 60 °C, max.	32	
horizontal installation		
— up to 40 °C, max.	64	
— up to 60 °C, max.	32	
vertical installation		
— up to 40 °C, max.	32	
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.	4.2 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— parameterizable	No	
— Rated value	4.2 ms	
— at "0" to "1", min.	1.2 ms	
— at "0" to "1", max.	4.8 ms	
— at "1" to "0", min.	1.2 ms	
— at "1" to "0", max.	4.8 ms	
Cable length		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Encoder		

Alarms Diagnostics function No Alarms Diagnostic alarm Diagnostic alarm Hardware interrupt No Diagnoses Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation Potential separation digital inputs between the channels, in groups of between the channels and backplane bus Solation Isolation tested with Sol V DC Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0	Connectable encoders	
Alarms No Diagnostics function No Alarms Diagnostic alarm No Hardware interrupt No Diagnoses Diagnostic information readable No Wire-break No Diagnostics indication LED Group error SF (red) No Status indicator digital input (green) Yes Encoder supply Vs (green) No Potential separation Potential separation Potential separation digital inputs 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 Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	• 2-wire sensor	No
Diagnostics function Alarms Diagnostic alarm Hardware interrupt No Diagnoses Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation digital inputs between the channels between the channels No between the channels in groups of between the channels and backplane bus Solation Solation tested with Sol V DC Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Interrupts/diagnostics/status information	
Alarms Diagnostic alarm Hardware interrupt No Diagnoses Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) No Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Sessionation Isolation Isolation tested with Sou V DC Connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Alarms	No
Diagnostic alarm No Hardware interrupt No Diagnoses Diagnostic information readable No Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) No Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Sou V DC connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Diagnostics function	No
Hardware interrupt Diagnoses Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation digital inputs between the channels between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Alarms	
Diagnoses Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation Potential separation Potential separation digital inputs between the channels between the channels between the channels, in groups of between the channels and backplane bus Yes; Optocoupler Isolation Isolation tested with Connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0	Diagnostic alarm	No
Diagnostic information readable Wire-break No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Hardware interrupt	No
No Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with Connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Diagnoses	
Diagnostics indication LED • Group error SF (red) • Status indicator digital input (green) • Encoder supply Vs (green) Potential separation Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation Solution Isolation Isolation tested with Connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0	 Diagnostic information readable 	No
Group error SF (red) Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation Isolation tested with required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Wire-break	No
Status indicator digital input (green) Encoder supply Vs (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Solation Isolation Isolation tested with connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Diagnostics indication LED	
Encoder supply Vs (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Isolation Isolation tested with 500 V DC connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	 Group error SF (red) 	No
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Isolation Isolation tested with 500 V DC connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	 between the channels, in groups of 	16
Isolation tested with 500 V DC connection method required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	between the channels and backplane bus	Yes; Optocoupler
required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Isolation	
required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0 Dimensions	Isolation tested with	500 V DC
Dimensions	connection method	
	required front connector	Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0
Width 40 mm	Dimensions	
	Width	40 mm
Height 125 mm	Height	125 mm
Depth 112 mm	Depth	112 mm
Weights	Weights	
Weight, approx. 230 g	Weight, approx.	230 g

last modified: 12/16/2020 🖸