



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

Figure similar

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),	1.5 mA

max.

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 / header

required front connector 20-pin

Dimensions

Width 40 mm
Height 125 mm
Depth 120 mm

Weights

Weight, approx. 200 g

last modified: 12/16/2020 