



SIMATIC S7-300, Digital input SM 321, Isolated 32 DI, 24 V DC, 1x 40-pole

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.	15 mA
Power loss	
Power loss, typ.	6.5 W
Digital inputs	
Number of digital inputs	32
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	32
— up to 60 °C, max.	16
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.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— 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	
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	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g

last modified:

8/16/2023 

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [PLC Controllers](#) category:

Click to view products by [Siemens](#) manufacturer:

Other Similar products are found below :

[3G2A5PS223E](#) [CJ1M-CPU13](#) [CS1W-CN227](#) [CP1H-Y20DT-D](#) [AFP0RDA4](#) [FC6A-C16R1AE](#) [AFP0RAD4](#) [EASY-E4-AC-12RCX1P](#) [EASY-E4-AC-16RE1P](#) [EASY-E4-AC-8RE1P](#) [EASY-E4-DC-12TC1P](#) [EASY-E4-DC-16TE1P](#) [EASY-E4-DC-4PE1P](#) [EASY-E4-DC-6AE1P](#) [EASY-E4-DC-8TE1P](#) [EASY-E4-UC-12RC1P](#) [EASY-E4-UC-12RCX1P](#) [EASY-E4-UC-16RE1P](#) [EASY-E4-UC-8RE1P](#) [EASY-BOX-E4-AC1](#)
[6GK1901-1BB30-0AA0](#) [6ES7521-1BL10-0AA0](#) [6ES7226-6RA32-0XB0](#) [6ES7132-6HD01-0BB1](#) [6ES7590-1AE80-0AA0](#) [TM200C32R](#)
[6ES7954-8LL04-0AA0](#) [6ES7954-8LF04-0AA0](#) [6ES7322-1BH01-0AA0](#) [6ES7131-6BH01-0BA0](#) [6ES7134-6GD01-0BA1](#) [6ES7155-6AU01-0CN0](#) [6ES7155-6BA01-0CN0](#) [6ES7954-8LE04-0AA0](#) [6ES7590-1AC40-0AA0](#) [CPM2C10CDT1MD](#) [6ED1055-1FB10-0BA2](#) [6ED1055-1MA00-0BA2](#) [6ED1055-1MM00-0BA2](#) [AFP0RC14RS](#) [XZBWR2STT24](#) [2906916](#) [2906920](#) [2906921](#) [CJ2M-MD211](#) [CS1W-OA201](#) [CJ2M-MD212](#) [GRV-EPIC-PR1](#) [CJ2M-CPU35](#) [88980183](#)