

SIMATIC S7-300, DIGITAL INPUT SM 321, OPTICALLY ISOLATED,  
32 DI, 120V AC, 1 X 40 PIN



Figure similar

<b>Supply voltage</b>	
Load voltage L1	
• Rated value (AC)	120 V
<b>Input current</b>	
from backplane bus 5 V DC, max.	16 mA
<b>Power loss</b>	
Power loss, typ.	4 W
<b>Digital inputs</b>	
Number of digital inputs	32
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	32
— up to 60 °C, max.	24
vertical installation	

— up to 40 °C, max.	32
<b>Input voltage</b>	
• Type of input voltage	AC
• Rated value (AC)	120 V
• for signal "0"	0 to 20V
• for signal "1"	74 to 132V
• Frequency range	47 ... 63 Hz
<b>Input current</b>	
• for signal "1", typ.	21 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	25 ms
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	4 mA
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	No
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	No
<b>Alarms</b>	
• Diagnostic alarm	No
• Hardware interrupt	No
<b>Diagnostics indication LED</b>	
• Group error SF (red)	No
• Status indicator digital input (green)	Yes; per channel
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• between the channels	No
• between the channels, in groups of	8
• between the channels and backplane bus	Yes; Optocoupler
<b>Isolation</b>	
Isolation tested with	2500 V DC

### Connection method

required front connector 40-pin

### Dimensions

Width 40 mm

Height 125 mm

Depth 120 mm

### Weights

Weight, approx. 300 g

**last modified:** 12/06/2016