

SIMATIC S7-400, digital input SM 421, isolated 16 DI; UC 24 - 60 V, alarm, diagnostics



Input current	
from backplane bus 5 V DC, max.	150 mA
Power loss	
Power loss, typ.	8 W; 3.5 W (24 V DC); 6.5 W (48 V DC); 8.0 W (60 V DC)
Digital inputs	
Number of digital inputs	16
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	16
Input voltage	
• Type of input voltage	AC/DC
• Rated value (UC)	24 V; 24 V UC to 60 V UC (47 ... 63 Hz)
• for signal "0"	-6 to +6 V DC/ 0 to 5 V AC
• for signal "1"	15 to 72 V DC; -15 to -72 V DC; 15 to 60 V AC
Input current	
• for signal "1", typ.	4 mA; 4 to 10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes

— Rated value	0.5 ms; 0.5 / 3 / 10 / 20 ms
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m; 600 m: 3, 10, 20 ms; 100 m: 0,5 ms
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	0.5 mA; 0.5 to 2 mA
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes; Parameterizable
<b>Alarms</b>	
• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	Yes; Parameterizable
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• between the channels, in groups of	1
• between the channels and backplane bus	Yes
<b>Isolation</b>	
Isolation tested with	1500 V AC
<b>Dimensions</b>	
Width	25 mm
Height	290 mm
Depth	210 mm
<b>Weights</b>	
Weight, approx.	600 g
<b>last modified:</b>	05/03/2018