

SIMATIC S7-400, SM 421 DIGITAL INPUT MODULE, OPTIC.
ISOLATED, 16 DI, 24 - 60V UC, 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 to 60 V UC
• 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
• Frequency range	47 to 63 Hz AC / DC
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
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m; 600 m: 3, 10, 20 ms; 100 m: 0,5 ms
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	0.5 mA; 0.5 to 2 mA
Interrupts/diagnostics/status information	
Diagnostics	Yes; internal/ external fault
Alarms	
• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	Yes; Parameterizable
Potential separation	
Potential separation digital inputs	
• between the channels, in groups of	1
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	1500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	600 g
last modified:	10/28/2016