

SIMATIC S7-400, SM 421 DIGITAL INPUT MODULE, OPTIC.
ISOLATED, 32 DI, 24V DC



Input current	
from backplane bus 5 V DC, max.	20 mA
Power losses	
Power loss, max.	6 W
Digital inputs	
Number of digital inputs	32
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	32
— up to 60 °C, max.	32
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V DC
• for signal "1"	13 V DC to 30 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	1.3 mA
• for signal "1", typ.	7 mA

Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
Cable length	
• Cable length, shielded, max.	1 000 m
• Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— Permissible quiescent current (2-wire sensor), max.	1.5 mA
Galvanic isolation	
Galvanic isolation digital inputs	
• between the channels, in groups of	32
• between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	500 g
last modified:	01.12.2014