

SIEMENS

Product data sheet

6ES7421-1BL01-0AA0

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/binary 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 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.	1000 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
Weight	
Weight, approx.	500 g
Status	Jul 17, 2012