



SIMATIC S7-400, digital input SM 421, isolated 32 DI; 24 V DC

Input current	
from backplane bus 5 V DC, max.	20 mA
Power loss	
Power loss, typ.	6 W
Digital inputs	
Number of digital inputs	32
Input characteristic according to IEC 61131	Type 1
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	32
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 V DC 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
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	No
Diagnostics indication LED	
• Status indicator digital input (green)	Yes
Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels, in groups of	32
• between the channels and backplane bus	Yes

Isolation	
Isolation tested with	500 V AC/707 V DC, type test
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	500 g
Classifications	

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

**General Product Approval**



[Miscellaneous](#)



**General Product Approval**      **EMV**      **For use in hazardous locations**

[China RoHS](#)

[Miscellaneous](#)

[Manufacturer Declaration](#)



**For use in hazardous locations**



[FM](#)



[Type Examination Certificate](#)



**Maritime application**



[NK / Nippon Kaiji Kyokai](#)



**Maritime application**



[CCS \(China Classification Society\)](#)

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last modified:

10/23/2025 

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