SIEMENS

Data sheet

6ES7521-1BP00-0AA0



SIMATIC S7-1500, digital input module, DI 64xDC 24V SNK/SRC BA, 64 channels in groups of 16, input delay typ. 3.2 ms, input type 3 (IEC 61131); sinking/sourcing input. 35 mm wide, cables and terminal blocks to be ordered separately as accessories

General information		
Product type designation	DI 64x24VDC BA	
HW functional status	From FS01	
Firmware version	V1.0.0	
FW update possible	Yes	
Product function		
• I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Prioritized startup	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V16 with HSP 0319 / V17	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET from GSD version/GSD revision 	V2.35 / -	
Operating mode		
• DI	Yes	
Counter	No	
Oversampling	No	
• MSI	Yes	
Supply voltage		
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
external protection for power supply lines (recommendation)	24 V DC/4 A miniature circuit breaker with type B or C tripping characteristic	
Power		
Power available from the backplane bus	0.6 W	
Power loss		
Power loss, typ.	4.8 W	
Digital inputs		
Number of digital inputs	64	
Digital inputs, parameterizable	No	
Source/sink input	Yes	
Input characteristic curve in accordance with IEC 61131,	Yes	
type 3		
Number of simultaneously controllable inputs		
 Number of simultaneously controllable inputs 	64; see additional description in the manual	
Input voltage		
 Rated value (DC) 	24 V	
● for signal "0"	-5 +5 V (reference potential is COM)	
● for signal "1"	-1130 V; +11 +30 V (reference potential is COM)	

Input current	
• for signal "1", typ.	2.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	3 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	3 ms
— at "1" to "0", max.	4 ms
for interrupt inputs	
— parameterizable	No
for technological functions	
— parameterizable	No
Cable length	
 shielded, max. 	1 000 m
 unshielded, max. 	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
— permissible quiescent current (2-wire sensor),	1.5 mA
max.	
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnoses	
 Monitoring the supply voltage 	No
• Wire-break	No
Short-circuit	No
Group error	No
Diagnostics indication LED	
RUN LED	Yes; green LED
ERROR LED	Yes; red LED
MAINT LED	No
 Monitoring of the supply voltage (PWR-LED) 	Yes; via SIMATIC TOP connect connection module
 Channel status display 	Yes; via SIMATIC TOP connect connection module
 for channel diagnostics 	No
for module diagnostics	No
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels, in groups of 	16; 32 when using SIMATIC TOP connect connection module
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	00.00
horizontal installation, min.	-30 °C
horizontal installation, max.	60 °C
vertical installation, min.	-30 °C
vertical installation, max.	40 °C
Altitude during operation relating to sea level	5 000 m
Installation altitude above sea level, max.	5 000 m
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	250 g

Other

Note:

last modified:

Please order cable and connection modules separately

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