SIEMENS

Data sheet

6ES7521-1BH50-0AA0



SIMATIC S7-1500, digital input module DI 16x24 V DC BA, sourcing input; 16 channels in groups of 16; Input delay 3.2 ms; Input type 3 (IEC 61131): Front connector (screw terminals or push-in) to be ordered separately

Figure similar

General information	
Product type designation	DI 16x24VDC SRC BA
HW functional status	FS01
Firmware version	V2.0.0
 FW update possible 	Yes
Product function	
 I&M data 	Yes; I&M0 to I&M3
 Isochronous mode 	No
Prioritized startup	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V12 / V12
 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	V2.3 / -
Operating mode	
• DI	Yes
Counter	No
• MSI	Yes
Supply voltage	
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	2.8 W
Digital inputs	
Number of digital inputs	16
Digital inputs, parameterizable	No
Source/sink input	Sourcing
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
 Rated value (DC) 	24 V
• for signal "0"	-5 to +30V
• for signal "1"	-11 to -30V
Input current	
● for signal "1", typ.	4.5 mA

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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	4.000
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	INO
Diagnostic alarm	No
Hardware interrupt	No
Diagnoses	INU
Monitoring the supply voltage	No
Wire-break	No
Short-circuit	No
Diagnostics indication LED	NO .
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	No
Channel status display	Yes; green LED
• for channel diagnostics	No
for module diagnostics	No
Potential separation	
Potential separation channels	
between the channels	No
between the channels, in groups of	16
between the channels and backplane bus	Yes
Isolation	163
Isolation tested with	707 V DC (type test)
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Standards, approvals, certificates	
Standards, approvals, certificates Suitable for safety functions	707 V DC (type test)
Standards, approvals, certificates Suitable for safety functions Ambient conditions	
Standards, approvals, certificates Suitable for safety functions Ambient conditions Ambient temperature during operation	No
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