SIEMENS

Data sheet

6ES7521-1BH10-0AA0



SIMATIC S7-1500 Digital input module, DI 16x24 V DC BA, 16 channels in groups of 16, input delay typ. 3.2 ms, input type 3 (IEC 61131); Delivery incl. front connector Push-in

General information	
Product type designation	DI 16 x 24 V DC 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 	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13 / V13
 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	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Power	
Power available from the backplane bus	1.05 W
Power loss	
Power loss, typ.	1.8 W
Digital inputs	
Number of digital inputs	16
Digital inputs, parameterizable	No
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	2.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No

of "0" to "4"	2 mg	
— 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), max. 	1.5 mA	
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	
Diagnostics indication LED		
• 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	ino.	
Potential separation channels		
between the channels	No	
 between the channels, in groups of 	16	
 between the channels and backplane bus 		
solation	Yes	
Isolation tested with	707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	No	
product functions / security / header		
data integrity	No	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; from FS04	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-30 °C; from FS04	
 vertical installation, max. 	40 °C	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
Dimensions		
Width	25 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	230 g	
Other		
	Our eliad is all 40 male such is frank as manufator	
NOTE:	Supplied Incl. 40-pole pusp-in front connectors	
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