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 dolou (for rotad using of input usite as)	
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	
	No
Diagnostic alarmHardware 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	
Potential separation channels	
between the channels	No
 between the channels, in groups of 	16
 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	
 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	05 mm
Width	25 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g
Other	

Note:

Supplied incl. 40-pole push-in front connectors

last modified:

6/24/2021 🖸