Data sheet

6ES7526-1BH00-0AB0



SIMATIC S7-1500, F digital input module, F-DI 16x 24 V DC PROFIsafe; 35 mm width; up to PL E (ISO 13849-1)/ SIL 3 (IEC 61508)

Product type designation Fround type designation Firmware version Firmware	General information	
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Outputs 5 byte; S7-300/400F CPU, 4 byte		9 byte; S7-300/400F CPU, 8 byte
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Automatic encoding Yes		Yes
Electronic coding element type F Yes		
Digital inputs		
Number of digital inputs 16		16

Source/sink input	Vec. D reading	
Source/sink input Input characteristic curve in accordance with IEC 61131, type 1	Yes; P-reading Yes	
Input characteristic curve in accordance with IEC 61131, type 1	100	
Rated value (DC)	24 V	
• for signal "0"	-30 to +5 V	
• for signal "1"	+15 to +30 V	
Input current	10 10 100 1	
• for signal "1", typ.	3.7 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— parameterizable	Yes	
— at "0" to "1", min.	0.4 ms	
— at "0" to "1", max.	20 ms	
— at "1" to "0", min.	0.4 ms	
— at "1" to "0", max.	20 ms	
Cable length		
shielded, max.	1 000 m	
• unshielded, max.	500 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
Hardware interrupt	No	
Diagnoses		
 Monitoring the supply voltage 	Yes	
Wire-break	No	
Short-circuit	Yes	
Group error	Yes	
Diagnostics indication LED		
• RUN LED	Yes; green LED	
• ERROR LED	Yes; red LED	
Channel status display	Yes; green LED	
 for channel diagnostics 	Yes; red LED	
for module diagnostics	Yes; red LED	
Potential separation		
Potential separation channels		
between the channels and backplane bus	Yes	
Isolation		
Isolation tested with	707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	Yes	
Highest safety class achievable in safety mode		
 Performance level according to ISO 13849-1 	PLe	
SIL acc. to IEC 61508	SIL 3	
Probability of failure (for service life of 20 years and repair time of 100 hours)		
 Low demand mode: PFDavg in accordance with SIL3 	< 5.00E-05	
High demand/continuous mode: PFH in accordance with SIL3	< 1.00E-09 1/h	
Ambient conditions		
Ambient temperature during operation		
horizontal installation, min.	0 °C	
horizontal installation, max.	60 °C	
 vertical installation, min. 	0 °C	
 vertical installation, max. 	40 °C	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	280 g	
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last modified: 3/12/2024 **2**