SIEMENS

Data sheet

6ES7326-1BK02-0AB0



SIMATIC S7, Digital input SM 326, F-DI 24x24 V DC, Fail-safe digital input for SIMATIC S7 F-systems with diagnostic alarm, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole

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Supply voltage			
Rated value (DC)	24 V		
Reverse polarity protection	Yes		
Input current			
from load voltage L+ (without load), max.	450 mA		
from backplane bus 5 V DC, max.	100 mA		
Encoder supply			
Number of outputs	4; Isolated		
Output current			
Rated value	400 mA		
Power loss			
Power loss, typ.	10 W		
Digital inputs			
Number of digital inputs	24		
Number of simultaneously controllable inputs			
all mounting positions			
— up to 40 °C, max.	24		
— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)		
Input voltage			
Type of input voltage	DC		
Rated value (DC)	24 V		
• for signal "0"	-30 to +5 V		
● for signal "1"	+11 to +30V		
Input current			
 for signal "0", max. (permissible quiescent current) 	2 mA		
 for signal "1", typ. 	10 mA		
Input delay (for rated value of input voltage)			
for standard inputs			
— at "0" to "1", max.	3.4 ms		
— at "1" to "0", max.	3.4 ms		
Cable length			
 shielded, max. 	200 m		
• unshielded, max.	100 m		
Encoder			
Connectable encoders			
• 2-wire sensor	Yes; if short-circuit test is deactivated		
— permissible quiescent current (2-wire sensor), max.	2 mA		
Interrupts/diagnostics/status information			
Diagnostics function	Yes		

Alarms	
Diagnostic alarm	Yes
Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
 Fail-safe operation 	Yes
Group error SF (red)	Yes
Potential separation	
Potential separation digital inputs	
between the channels	Yes
 between the channels, in groups of 	12
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to DIN VDE 0801	AK 6
• acc. to EN 954	Cat. 4
 Performance level according to ISO 13849-1 	e
• SIL acc. to IEC 61508	SIL 3
connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	442 g
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