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

Figure similar

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 	е	
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	

3/12/2024

last modified: