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 	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			
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