## 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			
<ul> <li>Type of input voltage</li> </ul>	DC		
Rated value (DC)	24 V		
● for signal "0"	-30 to +5 V		
● for signal "1"	+11 to +30V		
Input current			
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	2 mA		
<ul> <li>for signal "1", typ.</li> </ul>	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		
<ul> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul>	2 mA		
Interrupts/diagnostics/status information			
Diagnostics function	Yes		

Alarms				
Diagnostic alarm	Yes			
Diagnoses				
Diagnostic information readable	Yes			
Diagnostics indication LED				
<ul> <li>Fail-safe operation</li> </ul>	Yes			
Group error SF (red)	Yes			
Potential separation				
Potential separation digital inputs				
between the channels	Yes			
<ul> <li>between the channels, in groups of</li> </ul>	12			
<ul> <li>between the channels and backplane bus</li> </ul>	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			
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	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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