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	000	
• shielded, max.	200 m	
• unshielded, max.	100 m	
Encoder		
Connectable encoders	V	
• 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

1/16/2021

last modified: