

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

S7-300

6ES7326-1BK01-0AB0

FAIL-SAFE DIGITAL INPUT MODULE

Used with the applicable S7-300 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

SIMATIC S7-300

F digital / analog modules

SM 326 F digital input module - Safety Integrated

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Overview



- Digital inputs for the fail-safe SIMATIC S7 systems
- They are suitable for connecting:
 - switches and 2-wire proximity switches (BEROs)
 - Sensors according to NAMUR and mechanical contacts, also for signals from hazardous areas
- With integral safety functions for fail-safe operation
- Can be used in fail-safe mode
 - Centrally: With S7-31xF-2 DP
 - Distributed in ET 200M: With SIMATIC IM 151-7 F-CPU, S7-31xF-2 DP, S7-416F-2 and S7-400F/FH
- Can be used in standard mode as an S7-300 module

Technical specifications

	6ES7 326-1RF00-0AB0	6ES7 326-1BK01-0AB0
Supply voltages		
Supply voltage of electronics and encoders 1L+/2L+		
• Rated value (DC)	24 V	24 V
Current consumption		
from load voltage L+ (without load), max.	160 mA	450 mA
from backplane bus DC 5 V, max.	90 mA	100 mA
Power loss, typ.	4,5 W	10 W
Connection point		
required front connectors	40-pin	40-pin
Digital inputs		
Number of digital inputs	8; 8 (one-channel); 4 (two-channel)	24
Number of simultaneously controllable inputs		
• Number of simultaneously controllable inputs, up to 40 °C	8; vertical setup	24
• Number of simultaneously controllable inputs, up to 60 °C	8; horizontal set up	24; (at 24 V) or 18 (at 28.8 V)
Cable length		
• Cable length, shielded, max.	200 m	200 m
• Cable length unshielded, max.	100 m	100 m
Input voltage		
• Rated value, DC		24 V
• for signal "0"		-30V to 5 V
• for signal "1"		11 to 30 V
Input current		
• for signal "0", max. (permissible quiescent current)		2 mA
• for signal "1", typ.		10 mA

	6ES7 326-1RF00-0AB0	6ES7 326-1BK01-0AB0
Input delay (for rated value of input voltage)		
• for standard inputs - at "0" to "1", max. - at "1" to "0", max.		3.4 ms 3.4 ms
Encoder supply		
Number of outputs	8	4; electrically isolated
Output voltage	DC 8,2 V	
Output current, rated value		400 mA
Encoder		
Connectable encoders		
• 2-wire BEROs		Yes; if short-circuit test is deactivated 2 mA
• permissible quiescent current (2-wire BEROs), max.		
Ex(i) characteristics		
Module for Ex(i) protection	Yes	
Max. values of input circuits (per channel)		
• Co (permissible external capacity), max.	3 µF	
• Io (short-circuit current), max.	13.9 mA	
• Lo (permissible external inductivity), max.	80 mH	
• Po (power of load), max.	33.1 mW	
• Uo (output no-load voltage), max.	10 V	
• Ta (permissible ambient temperature), max.	60 °C	60 °C