

# SIEMENS

## Product data sheet

**6ES7326-1RF00-0AB0**


SIMATIC S7, DIGITAL INPUT SM 326, 8 DI;  
DC 24V, NAMUR,  
FAILSAFE NAMUR INPUTS FOR SIMATIC S7F  
SYSTEMS,  
1 X 40 PIN

Supply voltage	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	90 mA
Encoder supply	
Number of outputs	8
Output voltage	8.2 V DC
Power losses	
Power loss, typ.	4.5 W
Digital inputs	
Number/binary inputs	8 ; 8 (one-channel); 4 (two-channel)
Number of simultaneously controllable inputs	
all mounting positions	8 ; vertical setup
up to 40 °C, max.	8 ; vertical setup

up to 60 °C, max.	8 ; horizontal set up
<b>Input voltage</b>	
Type of input voltage	DC
Rated value, DC	in accordance with DIN 19234 or NAMUR
<b>Input current</b>	
for signal "0", max. (permissible quiescent current)	0.35 to 1.2 mA
for signal "1", typ.	2.1 to 7 mA
<b>Input delay (for rated value of input voltage)</b>	
<b>for NAMUR inputs</b>	
at "0" to "1", max.	1.2 to 3 ms
at "1" to "0", max.	1.2 to 3 ms
<b>Cable length</b>	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	100 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
Diagnostic information readable	Yes
<b>Diagnostics indication LED</b>	
Fail-safe operation	Yes
Group error SF (red)	Yes
<b>Ex(i) characteristics</b>	
Module for Ex(i) protection	Yes
<b>Max. values of input circuits (per channel)</b>	
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
Um (fault voltage), max.	60 V DC/30 V AC
Ta (permissible ambient temperature), max.	60 °C
<b>Galvanic isolation</b>	

Galvanic isolation digital inputs	
between the channels	Yes
between the channels and the backplane bus	Yes
between the channels and the power supply of the electronics	Yes
Isolation	
Isolation checked with	500 V DC
tested with	
Channels against backplane bus and load voltage L+	1500 V AC
Channels among one another	1500 V AC
Load voltage L+ against backplane bus	500 V DC / 350 V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to DIN VDE 0801	AK 4 (one channel), AK 5 und 6 (two channel)
acc. to EN 954	Cat. 3 (single-channel), Cat. 4 (two-channel)
acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Use in hazardous areas	
Test number KEMA	99 ATEX 2671 X
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weight	
Weight, approx.	482 g
Status	Jul 17, 2012