6ES7326-1RF01-0AB0

## **Data sheet**



SIMATIC S7, Digital input SM 326, 8 DI; 24 V DC, NAMUR, fail-safe NAMUR input for SIMATIC S7 F-systems, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole

Supply voltage	
Reverse polarity protection	Yes
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
Type of output voltage	8.2 V DC
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8
— up to 60 °C, max.	8
Input voltage	
Type of input voltage	DC
Input current	
<ul><li>for signal "0", max. (permissible quiescent current)</li></ul>	0.35 to 1.2 mA
• for signal "1", typ.	2.1 to 7 mA
Input delay (for rated value of input voltage)	
for NAMUR inputs	
— at "0" to "1", max.	1.2 to 3 ms
— at "1" to "0", max.	1.2 to 3 ms
Cable length	
• shielded, max.	200 m
• unshielded, max.	100 m
Interrupts/diagnostics/status information	
Alarms	V . B
Diagnostic alarm	Yes; Parameterizable
Diagnostics indication LED	Vac
<ul><li>Fail-safe operation</li><li>Group error SF (red)</li></ul>	Yes Yes
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Ex(i) characteristics	Voc
Module for Ex(i) protection	Yes
maximum values for connecting terminals for gas group IIC	

<ul> <li>Uo (no-load voltage), max.</li> </ul>	10 V
<ul><li>lo (short-circuit current), max.</li></ul>	13.9 mA
<ul><li>Po (power output), max.</li></ul>	33.1 mW
<ul> <li>Co (permissible external capacity), max.</li> </ul>	3 μF
<ul> <li>Lo (permissible external inductivity), max.</li> </ul>	80 mH
<ul> <li>Um (voltage at non-intrinsically safe connecting terminals), max.</li> </ul>	60 V DC/30 V AC
Potential separation	
Potential separation digital inputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
• acc. to EN 954	Cat. 4
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PLe
SIL acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Use in hazardous areas	
<ul> <li>ATEX certificate</li> </ul>	99 ATEX 2671 X
Ambient conditions	
Ambient temperature during operation	
• max.	60 °C
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	482 g

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last modified: