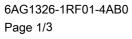
## **SIEMENS**

## Data sheet

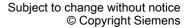
## 6AG1326-1RF01-4AB0

SIPLUS S7-300 SM 326F DI8 NAMUR for medial exposure with conformal coating based on 6ES7326-1RF01-0AB0 . 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 (IEC 61508)/PLE (ISO 13849), 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



Diagnostic alarm	Yes; Parameterizable	
Diagnostics indication LED		
Fail-safe operation	Yes	
• Group error SF (red)	Yes	
Ex(i) characteristics  Module for Ex(i) protection	Yes	
Max. values of input circuits for gas group IIC (per chan		
Co (permissible external capacity), max.	3 µF	
lo (short-circuit current), max.	13.9 mA	
	80 mH	
Lo (permissible external inductivity), max.      De (permissible external inductivity), max.	33.1 mW	
Po (power of load), max.	10 V	
Uo (output no-load voltage), max.		
• Um (fault voltage), max.	60 V DC/30 V AC	
<ul> <li>Ta (permissible ambient temperature), max.</li> </ul>	60 °C	
Potential separation		
Potential separation digital inputs		
• between the channels	Yes	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
• between the channels and the power supply of	Yes	
the electronics		
Standards, approvals, certificates		
Standards, approvals, certificates CE mark	Yes	
	Yes	
CE mark	Yes Cat. 4	
CE mark Highest safety class achievable in safety mode		
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954	Cat. 4	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508	Cat. 4 PLe	
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CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax  2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  Relative humidity	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax  2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  Relative humidity  • With condensation, tested in accordance with	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax  2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax  2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
CE mark  Highest safety class achievable in safety mode  • acc. to EN 954  • Performance level according to ISO 13849-1  • SIL acc. to IEC 61508  Ambient conditions  Ambient temperature during operation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance	Cat. 4 PLe SIL 2 (single-channel), SIL 3 (two-channel)  0 °C; = Tmin 60 °C; = Tmax  2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	



<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	482 g

10/09/2020



last modified: