## SIEMENS

## Data sheet

## 6AG2526-1BH00-1AB0



SIPLUS S7-1500 F-DI 16x24VDC HF T1 rail based on 6ES7526-1BH00-0AB0 with conformal coating, -30...+60 °C, OT1 with ST1/2 (+70 °C für 10 minutes), F digital input module, 35 mm overall width; up to PL E (ISO13849-1)/ SIL 3 (IEC 61508)

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General information			
Product type designation	F-DI 16x24VDC		
Product function			
• I&M data	Yes; I&M0 to I&M3		
Operating mode			
• DI	Yes		
Supply voltage			
Rated value (DC)	24 V		
permissible range, lower limit (DC)	19.2 V		
permissible range, upper limit (DC)	28.8 V		
Reverse polarity protection	Yes		
Input current			
Current consumption (rated value)	50 mA		
Encoder supply			
Number of outputs	4		
Short-circuit protection	Yes; Electronic (response threshold 0.7 A to 1.8 A)		
24 V encoder supply			
• 24 V	Yes; min. L+ (-1.5 V)		
Short-circuit protection	Yes		
Output current, max.	300 mA; Max. 100 mA when mounted vertically		
Power			
Power available from the backplane bus	0.9 W		
Power loss			
Power loss, typ.	4.6 W		
Address area			
Address space per module			
Address space per module, max.	9 byte		
Hardware configuration			
Automatic encoding	Yes		
Electronic coding element type F	Yes		
Digital inputs			
Number of digital inputs	16		
Source/sink input	Yes; P-reading		
Input characteristic curve in accordance with IEC 61131, type 1	Yes		
Input voltage			
Rated value (DC)	24 V		
• for signal "0"	-30 to +5 V		
• for signal "1"	+15 to +30 V		
Input current			

a for signal "1" the	2 7 m A
• for signal "1", typ.	3.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.4 ms
— at "0" to "1", max.	20 ms
— at "1" to "0", min.	0.4 ms
— at "1" to "0", max.	20 ms
Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
• unshielded, max.	500 m
terrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Hardware interrupt	No
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	No
Short-circuit	Yes
• Group error	Yes
Diagnostics indication LED	
RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Channel status display	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	Yes; red LED
<ul> <li>for module diagnostics</li> </ul>	Yes; red LED
otential separation	
Potential separation channels	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
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lealation tosted with	
	750 V DC (type test) and according to EN 50155 (routine test)
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andards, approvals, certificates	
andards, approvals, certificates Suitable for safety functions	750 V DC (type test) and according to EN 50155 (routine test) Yes
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Andards, approvals, certificates Suitable for safety functions Highest safety class achievable in safety mode • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508	Yes PLe SIL 3
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Suitable for safety functions Highest safety class achievable in safety mode • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508 • SIL in accordance with EN 50126, 50128, 50129	Yes PLe SIL 3 SIL 2; a higher safety integrity level is possible if tested and approved for the specific application under consideration of all local regulations.
Andards, approvals, certificates Suitable for safety functions Highest safety class achievable in safety mode    Performance level according to ISO 13849-1   SIL acc. to IEC 61508  SIL in accordance with EN 50126, 50128, 50129 Probability of failure (for service life of 20 years and repair time	Yes PLe SIL 3 SIL 2; a higher safety integrity level is possible if tested and approved for the specific application under consideration of all local regulations. e of 100 hours)
Suitable for safety functions Highest safety class achievable in safety mode • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508 • SIL in accordance with EN 50126, 50128, 50129	Yes PLe SIL 3 SIL 2; a higher safety integrity level is possible if tested and approved for the specific application under consideration of all local regulations.
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<ul> <li>vertical installation, min.</li> </ul>	-30 °C; = Tmin		
<ul> <li>vertical installation, max.</li> </ul>	40 °C; = Tmax		
Altitude during operation relating to sea level			
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m		
<ul> <li>Ambient air temperature-barometric pressure-altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)		
Relative humidity			
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation		
Resistance			
Coolants and lubricants			
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air		
Use in stationary industrial systems			
<ul> <li>— to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request		
<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 land craft, rail vehicles and special-purpose vehicles			
<ul> <li>— to biologically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request		
<ul> <li>— to chemically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
<ul> <li>— to mechanically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5S3 incl. sand, dust; *		
Usage in industrial process technology			
<ul> <li>Against chemically active substances acc. 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!		
Conformal coating			
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability		
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection		
Electronic equipment on rolling stock acc. to EN 50155	Yes; Class PC2 protective coating acc. to EN 50155:2017		
Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life		
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A</li> </ul>	Yes; Conformal coating, Class A		
limensions			
Width	35 mm		
Height	147 mm		
Depth	129 mm		
/eights			
Weight, approx.	280 g		
ther			
Note:	for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776		
last modified:	12/18/2020 🖸		

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