SIPLUS S7-300 SM 326F DI24 with conformal coating With conformity with EN 50155 T1 Kat 1 KI A/B based on 6ES7326-1BK02-0AB0 . Digital input Fail-safe digital input for SIMATIC S7 F-systems with diagnostic alarm, 1x 40-pole



Figure similar

Supply voltage	
Rated value (DC)	24 V; A power supply according to EN 50155 shall be used
Input current	
from load voltage L+ (without load), max.	450 mA
from backplane bus 5 V DC, max.	100 mA
Encoder supply	
Number of outputs	4; Isolated
Output current	
Rated value	400 mA
Power loss	
Power loss, typ.	10 W
Digital inputs	
Number of digital inputs	24
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	24

— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)
Input voltage	
Type of input voltage	DC
• Rated value (DC)	24 V
● for signal "0"	-28.8 +5V
• for signal "1"	+11 to +28.8V
Input current	
 for signal "0", max. (permissible quiescent current) 	2 mA
• for signal "1", typ.	10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3.4 ms
— at "1" to "0", max.	3.4 ms
Cable length	
• shielded, max.	200 m
• unshielded, max.	100 m
Encoder Connectable encoders	
Connectable encoders	Yes; if short-circuit test is deactivated
• 2-wire sensor	
 permissible quiescent current (2-wire sensor), max. 	2 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
• Group error SF (red)	Yes
Ex(i) characteristics	
Maximum values of input circuits (per channel)	
 Ta (permissible ambient temperature), max. 	60 °C; = Tmax; the rated temperature range of -25 +55 °C (T1) applies for the use on railway vehicles according to EN50155
Potential separation	
Potential separation digital inputs	
• between the channels	Yes
• between the channels, in groups of	12
between the channels and backplane bus	Yes
•	

Isolation		
Isolation tested with	500V AC for 1 min (internal voltage limiting to ±120V)	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes; File E239877	
Highest safety class achievable in safety mode		
• acc. to DIN VDE 0801	AK 6	
● acc. to EN 954	Cat. 4	
• SIL acc. to IEC 61508	SIL 3	
Railway application		
● EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C; = Tmin	
• max.	60 °C; = Tmax; the rated temperature range of -25 +55 °C (T1) applies for the use on railway vehicles according to EN50155	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	2 000 m	
 Ambient air temperature-barometric pressure- altitude 	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 under condensation conditions)	
Resistance		
Use in stationary industrial systems		
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *	
Use on land craft, rail vehicles and special-purpose	vehicles	
 to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request	
 to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *	
 to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *	
Remark		
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!	

Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	442 g
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