Data sheet

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	

to 60 °C	24; (at 24 V) or 18 (at 28.8 V)
— up to 60 °C, max.	24, (at 24 v) or 10 (at 20.0 v)
Input voltage	DC
Type of input voltage Potential (PC)	24 V
• Rated value (DC)	
• for signal "0"	-28.8 +5V
• for signal "1"	+11 to +28.8V
Input current	0.554
 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	
• 2-wire sensor	Yes; if short-circuit test is deactivated
 permissible quiescent current (2-wire sensor), max. 	2 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Diagnostic information readable 	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
Group error SF (red)	Yes
Ex(i) characteristics	
Max. values of input circuits for gas group IIC (per cha	nnel)
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



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solation	
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
 Performance level according to ISO 13849-1 	е
• 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 \dots +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	



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 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		
last modified:	10/09/2020		

