

SIPLUS S7-300 SM326F DI24 40PIN -25 ... +60 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7326-1BK02-0AB0 . DIGITAL INPUT F-DI 24 X DC 24V, FAILSAFE DIGITAL INPUTS FOR SIMATIC S7 FAILSAFE SYSTEMS WITH DIAGNOST. INTERRUPT

Supply voltage	
Rated value (DC)	24 V
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	
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	
Rated value, DC	24 V
for signal "0"	-30 to +5 V
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	
Cable length, shielded, max.	200 m

Cable length 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	
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
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
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	Yes
between the channels, in groups of	12
between the channels and the backplane bus	Yes
Standards, approvals, certificates	
CE mark	Yes
KC approval	Yes
UL approval	Yes ; File E239877
RCM (former C-TICK)	Yes
FM approval	Yes ; CofC 3028431
EAC (former Gost-R)	Yes
Highest safety class achievable in safety mode	
acc. to DIN VDE 0801	AK 6
acc. to EN 954	Cat. 4
acc. to IEC 61508	SIL 3
Ambient conditions	
Operating temperature	
min.	-25 °C ; = Tmin
max.	60 °C ; = Tmax
Extended ambient conditions	

relative to ambient temperature-atmospheric pressure- installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
with condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
min.	-25 °C
max.	60 °C
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	442 g
Status	Jul 29, 2014