

SIPLUS S7-300 SM326F DI8 NAMUR FOR MEDIAL
STRESS WITH CONFORMAL COATING BASED ON
6ES7326-1RF00-0AB0

Supply voltage	
Rated value (DC)	24 V
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
Output voltage	8.2 V DC
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8 ; 8 (one-channel); 4 (two-channel)
Number of simultaneously controllable inputs	
all mounting positions	
up to 40 °C, max.	8 ; vertical setup
up to 60 °C, max.	8 ; horizontal set up
Input voltage	
Type of input voltage	DC
Rated value, DC	in accordance with DIN 19234 or NAMUR
Input current	
for signal "0", max. (permissible quiescent current)	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	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	100 m
Interrupts/diagnostics/status information	
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	
Module for Ex(i) protection	Yes
Maximum values of input circuits (per channel)	
Co (permissible external capacity), max.	3 µF
Io (short-circuit current), max.	13.9 mA
Lo (permissible external inductivity), max.	80 mH
Po (power of load), max.	33.1 mW
Uo (output no-load voltage), max.	10 V
Um (fault voltage), max.	60V DC/30V AC
Ta (permissible ambient temperature), max.	60 °C
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	Yes
between the channels and the backplane bus	Yes
between the channels and the power supply of the electronics	Yes
Isolation	
Isolation tested with	500 V DC
tested with	
Channels against backplane bus and load voltage L+	1500 V AC
Channels between each other	1500 V AC
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
EN 50155	No
Highest safety class achievable in safety mode	
acc. to DIN VDE 0801	AK 4 (one channel), AK 5 und 6 (two channel)
acc. to EN 954	Cat. 3 (single-channel), Cat. 4 (two-channel)
acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)

Use in hazardous areas	
Test number KEMA	99 ATEX 2671 X
Ambient conditions	
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.	0 °C ; = Tmin
max.	60 °C ; = Tmax
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	482 g
Status	Jul 29, 2014