

\*\*\*Spare part\*\*\* SIPLUS S7-300 SM 326F -25...+60 °C with conformal coating based on 6ES7326-2BF01-0AB0 . Digital output ""10 DA; 24 V DC, 2A, "" fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, 1x 40-pole



Supply voltage	
Rated value (DC)	24 V; 1L+
Reverse polarity protection	Yes
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V; 2L+, 3L+
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	No
Input current	
from supply voltage 1L+, max.	70 mA
from load voltage 2L+ (without load), max.	100 mA
from load voltage 3L+ (without load), max.	100 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	12 W
Digital outputs	
Number of digital outputs	10
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	L+ (-53 V) without series diode, L+ (-33 V) with series diode
Switching capacity of the outputs	

• on lamp load, max.	5 W
<b>Output voltage</b>	
• for signal "1", min.	L+ (-1 V) without series diode, L+ (-1.8 V) with series diode
<b>Output current</b>	
• for signal "1" rated value	2 A
• for signal "1" permissible range for 0 to 40 °C, min.	7 mA
• for signal "1" permissible range for 0 to 40 °C, max.	2 A; 2 A for horizontal installation, 1 A for vertical installation
• for signal "1" permissible range for 40 to 60 °C, min.	7 mA
• for signal "1" permissible range for 40 to 60 °C, max.	1 A; for horizontal installation
• for signal "0" residual current, max.	0.5 mA
<b>Switching frequency</b>	
• with resistive load, max.	10 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
<b>horizontal installation</b>	
— up to 40 °C, max.	7.5 A; without series diode, 5 A with series diode
— up to 60 °C, max.	5 A; without series diode, 4 A with series diode
<b>vertical installation</b>	
— up to 40 °C, max.	5 A; without series diode, 4 A with series diode
<b>Cable length</b>	
• shielded, max.	1 000 m; 200 m for SIL3, AK 6, Cat 4
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
• Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
• Diagnostic information readable	Yes
<b>Diagnostics indication LED</b>	
• Fail-safe operation	Yes
• Group error SF (red)	Yes
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	Yes
• between the channels, in groups of	5
• between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	Yes

Isolation	
Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
Railway application	
• EN 50155	No
Highest safety class achievable in safety mode	
• acc. to DIN VDE 0801	AK 5 and 6
• acc. to EN 954	Cat. 4
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	60 °C; = Tmax
Altitude during operation relating to sea level	
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 080 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 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 according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on 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.	465 g
<b>last modified:</b>	05/18/2018