

Spare part SIMATIC S7, Digital output SM 326, 10 DO, 24 V DC, 2A, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, 1x 40-pole



Figure similar

Supply voltage	
Rated value (DC)	24 V; 1L+
Reverse polarity protection	Yes
Load voltage L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V; 2L+, 3L+
<ul style="list-style-type: none"> Reverse polarity protection 	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
Output voltage	
• for signal "1", min.	L+ (-1 V) without series diode, L+ (-1.8 V) with series diode
Output current	
• 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
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— 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
vertical installation	
— up to 40 °C, max.	5 A; without series diode, 4 A with series diode
Cable length	
• shielded, max.	1 000 m; 200 m for SIL3, AK 6, Cat 4
• unshielded, max.	600 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
Potential separation	
Potential separation digital outputs	
• 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

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 |

Connection method

required front connector 40-pin

Dimensions

Width	80 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx. 465 g

last modified: 09/07/2018