

SIMATIC S7, digital output SM 326, F-DO10x 24 V DC/2A PP, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, LVV, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 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.	100 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.	6 W
Digital outputs	
Number of digital outputs	10
Short-circuit protection	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	5 W

<b>Output voltage</b>	
• for signal "1", min.	L+ (-1.0 V)
<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.	2.4 A
• for signal "1" permissible range for 40 to 60 °C, min.	7 mA
• for signal "1" permissible range for 40 to 60 °C, max.	2.4 A
• for signal "0" residual current, max.	0.5 mA
<b>Switching frequency</b>	
• with resistive load, max.	25 Hz
• with inductive load, max.	25 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
horizontal installation	
— up to 40 °C, max.	10 A
— up to 60 °C, max.	6 A
vertical installation	
— up to 40 °C, max.	5 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• 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 370V for 1 min

## 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     |
| • Performance level according to ISO 13849-1 | e          |
| • SIL acc. to IEC 61508                      | SIL 3      |

## Connection method

required front connector 40-pin

## Dimensions

Width	40 mm
Height	125 mm
Depth	120 mm

## Weights

Weight, approx. 330 g

**last modified:** 11/13/2019