




SIMATIC S7, Digital output SM 326, F-DO 8x24 V DC/2A PM fail-safe digital output
Switching to P-M potential 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+ | |
| • Rated value (DC) | 24 V; 2L+, 3L+ |
| • Reverse polarity protection | No |
| Input current | |
| from supply voltage 1L+, max. | 75 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 | 8 |
| Short-circuit protection | Yes |
| Limitation of inductive shutdown voltage to | L+ (-33 V) |
| Switching capacity of the outputs | |
| • on lamp load, max. | 5 W |
| Output voltage | |
| • for signal "1", min. | L+ (-1.0 V) |
| 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. | 30 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 |
| — up to 60 °C, max. | 5 A |
| vertical installation | |
| — up to 40 °C, max. | 5 A |
| Cable length | |
| • shielded, max. | 200 m; 200 m for SIL 3, AK 6, Cat 4 |

| | |
|--|---|
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnoses | |
| • 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 | 4 |
| • 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 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 | 80 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 465 g |
| last modified: | 3/12/2024  |