




SIMATIC S7-1200, Relay output SM 1226, F-DQ 2x RLY 5A, PROFIsafe, 70 mm overall width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

| General information | |
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| Product type designation | SM 1226, F-DQ 2x relay/5 A |
| Supply voltage | |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| power supply according to NEC Class 2 required | No |
| Input current | |
| from backplane bus 5 V DC, max. | 120 mA |
| Digital outputs | |
| <ul style="list-style-type: none"> from load voltage L+, max. | 300 mA |
| Power loss | |
| Power loss, typ. | 10 W |
| Digital outputs | |
| Number of digital outputs | 2 |
| Short-circuit protection | No |
| Output voltage | |
| <ul style="list-style-type: none"> Rated value (DC) Rated value (AC) | 5 V DC to 30 V DC 5 V AC to 250 V AC |
| Output current | |
| <ul style="list-style-type: none"> for signal "1" permissible range, max. | 5 A maximum per circuit and 10 A maximum of all circuits per module |
| Relay outputs | |
| <ul style="list-style-type: none"> Number of relay outputs | 2; 2 circuits per output |
| Switching capacity of contacts | |
| — with inductive load, max. | 0.1 Hz, accordance with IEC 60947-5-1, DC-13; 2 Hz, accordance with IEC 60947-5-1, AC-15 |
| — with resistive load, max. | 2 Hz |
| Cable length | |
| <ul style="list-style-type: none"> shielded, max. unshielded, max. | 200 m 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| <ul style="list-style-type: none"> for status of the outputs | Yes |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| cULus | Yes |
| FM approval | Yes |
| Highest safety class achievable in safety mode | |

| | |
|---|---|
| <ul style="list-style-type: none"> • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508 | Category 4, PL e SIL 3 |
| Probability of failure (for service life of 20 years and repair time of 100 hours) | |
| — Low demand mode: PFDavg in accordance with SIL3 | < 1.00E-05 |
| — High demand/continuous mode: PFH in accordance with SIL3 | < 4.00E-09 |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | 0 °C |
| • max. | 55 °C |
| • permissible temperature change | 5°C to 55°C, 3°C / minute |
| Ambient temperature during storage/transportation | |
| • min. | -40 °C |
| • max. | 70 °C |
| Air pressure acc. to IEC 60068-2-13 | |
| • Storage/transport, min. | 660 hPa |
| • Storage/transport, max. | 1 080 hPa |
| Relative humidity | |
| • Operation at 25 °C without condensation, max. | 95 % |
| Mechanics/material | |
| Enclosure material (front) | |
| • Plastic | Yes |
| Dimensions | |
| Width | 70 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 300 g |
| last modified: | 10/7/2021  |