



SIMATIC S7-1200, Digital output SM 1226, F-DQ 4x 24 V DC 2A, PROFIsafe, 70 mm overall width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

| General information | |
|--|--|
| Product type designation | SM 1226 F-DQ 4x 24 VDC |
| 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. | 125 mA |
| Digital outputs | |
| • from load voltage L+, max. | 170 mA |
| Power loss | |
| Power loss, typ. | 8 W |
| Digital outputs | |
| Number of digital outputs | 4 |
| • in groups of | 1 |
| Short-circuit protection | Yes |
| Switching capacity of the outputs | |
| • with resistive load, max. | 30 Hz |
| • on lamp load, max. | 10 Hz |
| Output voltage | |
| • Rated value (DC) | 24 V |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" permissible range, max. | 10 mA to 2.4 A |
| • for signal "0" residual current, max. | P-switch: 0.5 mA, maximum; M-switch: 0.5 mA, maximum |
| Cable length | |
| • shielded, max. | 200 m |
| • unshielded, max. | 200 m |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| • 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 | |
| • Performance level according to ISO 13849-1 | Category 4, PL e |
| • SIL acc. to IEC 61508 | 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. | 270 g |

last modified:

