



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	
<ul style="list-style-type: none"> <li>from load voltage L+, max.</li> </ul>	170 mA
Power loss	
Power loss, typ.	8 W
Digital outputs	
Number of digital outputs	4
<ul style="list-style-type: none"> <li>in groups of</li> </ul>	1
Short-circuit protection	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	30 Hz
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	10 Hz
Output voltage	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V
Output current	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> </ul>	2 A
<ul style="list-style-type: none"> <li>for signal "1" permissible range, max.</li> </ul>	10 mA to 2.4 A
<ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul>	P-switch: 0.5 mA, maximum; M-switch: 0.5 mA, maximum
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	200 m
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	200 m
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>for status of the outputs</li> </ul>	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"> <li>Performance level according to ISO 13849-1</li> </ul>	Category 4, PL e
<ul style="list-style-type: none"> <li>SIL acc. to IEC 61508</li> </ul>	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

### Classifications

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

### Approvals / Certificates

General Product Approval EMV



[Miscellaneous](#)



### For use in hazardous locations



[FM](#)



[CCC-Ex](#)

[Type Examination Certificate](#)

[TUEV](#)

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