

SIMATIC DP, ELECTRON. MODULE F. ET200S, 4/8 F-DI  
 PROFISAFE, 24V DC, 30 MM WIDTH UP TO CATEGORY 4  
 (EN954-1) ALSO USEABLE IN PROFINET- NETWORK WITH  
 IM151-3 HF

### Supply voltage

Rated value (DC)	Yes
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	No

### Encoder supply

Number of outputs	2
Type of output voltage	min. L+ (-1.5 V)
Short-circuit protection	Yes; Electronic (response threshold 0.7 A to 1.8 A)
Output current	
<ul style="list-style-type: none"> <li>• Rated value</li> </ul>	300 mA
<ul style="list-style-type: none"> <li>• permissible range, lower limit</li> </ul>	0 mA
<ul style="list-style-type: none"> <li>• permissible range, upper limit</li> </ul>	300 mA

### Power loss

Power loss, typ.	4 W
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### Address area

Occupied address area	
<ul style="list-style-type: none"> <li>• Inputs</li> </ul>	6 byte
<ul style="list-style-type: none"> <li>• Outputs</li> </ul>	4 byte

### Digital inputs

Number of digital inputs	8; 8 single channel, 4 two-channel
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
<ul style="list-style-type: none"> <li>• Number of simultaneously controllable inputs</li> </ul>	8
Input voltage	
<ul style="list-style-type: none"> <li>• Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• for signal "0"</li> </ul>	-30 to +5V
<ul style="list-style-type: none"> <li>• for signal "1"</li> </ul>	+15 to +30V
Input current	
<ul style="list-style-type: none"> <li>• for signal "1", typ.</li> </ul>	3.7 mA
Input delay (for rated value of input voltage)	

for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.3 ms
— at "0" to "1", max.	17 ms
— at "1" to "0", min.	0.3 ms
— at "1" to "0", max.	17 ms

Cable length	
• shielded, max.	200 m
• unshielded, max.	200 m

Encoder	
Connectable encoders	
• 2-wire sensor	No

Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes

Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No

Standards, approvals, certificates	
Highest safety class achievable in safety mode	
• acc. to EN 954	Cat. 3 (single-channel), Cat. 4 (two-channel)
• SIL acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)

Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm

Weights	
Weight, approx.	78 g

**last modified:** 08/12/2017