

SIMATIC DP, ELECTRON. MODULE F. ET200S, 4/8 F-DI PROFISAFE, 24V DC, 30 MM WIDTH UP TO PL E (ISO13849), UP TO SIL3 (IEC 61508), ALSO USEABLE IN PROFINET- NETWORK WITH IM151-3 HF



Supply voltage	
Rated value (DC)	Yes
<ul style="list-style-type: none"> • 24 V DC 	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
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"> • Rated value 	300 mA
<ul style="list-style-type: none"> • permissible range, lower limit 	0 mA
<ul style="list-style-type: none"> • permissible range, upper limit 	300 mA
Power loss	
Power loss, typ.	4 W
Address area	
Occupied address area	

- Inputs 6 byte
- Outputs 4 byte

Digital inputs

Number of digital inputs	8; 8 (one-channel); 4 (two-channel)
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	8
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
Input current	
• for signal "1", typ.	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.	500 m
• unshielded, max.	500 m

Encoder

Connectable encoders	
• 2-wire sensor	No
— permissible quiescent current (2-wire sensor), max.	0.6 mA; max.

Interrupts/diagnostics/status information

Diagnostic functions	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
• Short-circuit	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
- Between the channels and load voltage L+

Yes

No

Standards, approvals, certificates

Highest safety class achievable in safety mode

- Performance level according to ISO 13849-1
- SIL acc. to IEC 61508

PLe

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