

SIMATIC DP, Electronics module f. ET200S, 4/8 F-DI PROFI-safe, 24 V DC, 30 mm overall width, up to PL E (ISO 13849), Up to SIL3 (IEC 61508), can also be used in PROFINET configuration with IM 151-3 HF



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> • 24 V DC 	Yes
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	
Address space per module	
<ul style="list-style-type: none"> • Inputs 	6 byte
<ul style="list-style-type: none"> • 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
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	
Diagnostics function	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	Yes
• Between the channels and load voltage L+	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
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last modified: 05/09/2020