

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DI HIGH FEATURE 24V DC, 15 MM WIDTH WITH PARAM. F. INPUT DELAY DIAGNOSIS F. ENCODER SHORT- CIRCUIT W. LED SF (GROUP FAULT) 5 PIECES PER PACKAGING UNIT



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> • 24 V DC 	Yes; From power module
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	Dependent on encoder
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Type of output voltage	min. L+ (-0.5 V), under load
short-circuit protection	Yes; Electronic
Output current	
<ul style="list-style-type: none"> • nominal • permissible range 	500 mA 0 to 500 mA
Power loss	
Power loss, typ.	0.7 W
Address space per module	

- with packing 4 bit
- without packing 1 byte

Digital inputs

Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	8 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— Parameterizable	Yes; 0.1 / 0.5 / 3 / 15 ms
— at "0" to "1", min.	0.05 / 0.4 / 2.7 / 14.85
— at "0" to "1", max.	0,15 / 0,6 / 3,3 / 15,15
— at "1" to "0", min.	0.05 / 0.4 / 2.7 / 14.85
— at "1" to "0", max.	0,15 / 0,6 / 3,3 / 15,15
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m

Encoder

Connectable encoders	
• 2-wire sensor	
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Diagnostic messages	
• Diagnostic functions	Yes
• Short-circuit	Yes; Short-circuit of outputs to ground; module by module
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes; per channel

Parameter

Remark	3 byte
Diagnostics short-circuit	Disable / enable

Potential separation

Potential separation digital inputs	
• between the channels	No
• between the channels and the backplane bus	Yes

Permissible potential difference	
between different circuits	75V DC/60V AC
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	35 g
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