



SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 2 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"> <li>24 V DC</li> </ul>	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 backplane bus 3.3 V DC, max.	10 mA
from supply voltage L+, max.	Dependent on encoder

### 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"> <li>nominal</li> </ul>	500 mA
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### Power losses

Power loss, typ.	0.4 W
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### Address space per module

<ul style="list-style-type: none"> <li>with packing</li> <li>without packing</li> </ul>	2 bit 1 byte
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### Digital inputs

Number of digital inputs	2
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
<b>Input current</b>	
• for signal "1", typ.	8 mA
<b>Input delay (for rated value of input voltage)</b>	
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
<b>Cable length</b>	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— Permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Diagnostic messages</b>	
• Diagnostic functions	Yes
• Short circuit	Yes; Short-circuit of outputs to ground; module by module
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes; per channel
<b>Parameter</b>	
Remark	3 byte
Diagnosis: short circuit	Disable / enable
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital inputs</b>	
• between the channels	No
• between the channels and the backplane bus	Yes
<b>Permissible potential difference</b>	
between different circuits	75V DC/60V AC
<b>Isolation</b>	
Isolation checked with	500 V DC
<b>Dimensions</b>	
Width	15 mm

Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	35 g
<b>last modified:</b>	12.03.2015