

\*\*\* SPARE PART\*\*\* SIMATIC DP, ELECTRONIC MODULE  
DIGITAL, FOR ET 200B, W=235MM, 32DI 24V DC, 0.2MS INPUT  
DELAY

### Supply voltage

Rated value (DC)	24 V; L5+; value at t < 0.5 s: 35 V
permissible range, lower limit (DC)	18.5 V
permissible range, upper limit (DC)	30.2 V

### Input current

Current consumption, typ.	70 mA; From L5+; logic
Current consumption, max.	1 000 mA; from L5+; sensor
$I^2t$	0.05 A <sup>2</sup> -s; with starting current inrush

### Power loss

Power loss, typ.	4.8 W
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### Hardware configuration

Rack	
<ul style="list-style-type: none"> <li>required terminal block</li> </ul>	TB2/DC, TB2-4/DC, TB4/DC, TB4-4/DC

### Digital inputs

Number of digital inputs	32
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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>	13 to 30V

Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	4 mA; At 24 V min. 2 mA

Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> <li>at "0" to "1", max.</li> </ul>	0.2 ms

Cable length	
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	100 m

### Encoder

Connectable encoders	
<ul style="list-style-type: none"> <li>2-wire sensor</li> </ul>	Yes
<ul style="list-style-type: none"> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	1.5 mA

### Interfaces

PROFIBUS DP	
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- Transmission rate, max. 12 Mbit/s
- FREEZE capability Yes

### Protocols

Bus protocol/transmission protocol PROFIBUS DP

### Interrupts/diagnostics/status information

#### Diagnostics indication LED

- RUN LED Yes
- Bus fault BF (red) Yes
- Status indicator digital input (green) Yes

### Potential separation

between electronic block and PROFIBUS DP Yes

#### Potential separation digital inputs

- Potential separation digital inputs No

### Degree and class of protection

Degree of protection acc. to EN 60529 IP20

### Ambient conditions

#### Ambient temperature during operation

- horizontal installation, min. 0 °C
- horizontal installation, max. 60 °C; 40°C for other mountings

#### Air pressure acc. to IEC 60068-2-13

- permissible range, lower limit 795 hPa
- permissible range, upper limit 1 080 hPa

#### Relative humidity

- Operation, min. 95 %
- Operation, max. 15 %; RH class 2 in accordance with IEC 1131-2

#### Vibrations

- Operation, tested according to IEC 60068-2-6 Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)

#### Shock test

- tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms

### Connection method

Design of electrical connection for the inputs and outputs Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection

### Dimensions

Width 235 mm; EB and TB  
 Height 130 mm; EB and TB  
 Depth 60 mm; EB and TB

### Weights

Weight, approx. 800 g; EB and TB

last modified:

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