

SIMATIC DP, 5 electronic modules ET 200S: 4 DI 24 V...48 V UI, 15 mm width, with SF LED (group fault) 5 units per packing unit



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	Yes; From power module
Rated value (AC)	
<ul style="list-style-type: none"> <li>• 24 V AC</li> </ul>	Yes
Reverse polarity protection	Yes; AC or DC automatic
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; per module
Output current	
<ul style="list-style-type: none"> <li>• Rated value</li> </ul>	500 mA
<ul style="list-style-type: none"> <li>• permissible range, lower limit</li> </ul>	0 mA
<ul style="list-style-type: none"> <li>• permissible range, upper limit</li> </ul>	500 mA
Power loss	

Power loss, typ.	0.7 W
<b>Address area</b>	
Address space per module	
<ul style="list-style-type: none"> <li>• with packing</li> <li>• without packing</li> </ul>	4 bit 1 byte
<b>Digital inputs</b>	
Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> <li>• Type of input voltage</li> <li>• Rated value (UC)</li> <li>• for signal "0"</li> <li>• for signal "1"</li> </ul>	AC/DC 24 V; 24 ... 48 V UC (47 ... 63 Hz) -6 to +6 V DC/ 0 to 5 V AC -15 V DC to -57.6 V DC; 15 V DC to 57.6 V DC; 15 V AC to 48 V AC
Input current	
<ul style="list-style-type: none"> <li>• for signal "1", typ.</li> </ul>	10 mA; 4 to 10 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> <li>— at "1" to "0", max.</li> </ul>	15 ms 15 ms
Encoder connection	
<ul style="list-style-type: none"> <li>• Fixed current limitation for wire-break monitoring, min.</li> </ul>	18 kΩ; Rated voltage 24 V (15 V to 35 V); rated voltage 48 V (30 V to 60 V): 39 kohms
Cable length	
<ul style="list-style-type: none"> <li>• shielded, max.</li> <li>• unshielded, max.</li> </ul>	1 000 m 600 m
<b>Encoder</b>	
Connectable encoders	
<ul style="list-style-type: none"> <li>• 2-wire sensor               <ul style="list-style-type: none"> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul> </li> </ul>	Yes 2 mA; (0.5 to 2 mA), a minimum load current is necessary for wire break diagnostics.
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	Yes
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes; Parameterizable
Diagnostic messages	
<ul style="list-style-type: none"> <li>• Wire-break</li> </ul>	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• Group error SF (red)</li> </ul>	Yes

- Status indicator digital input (green) Yes; per channel

### Potential separation

#### Potential separation digital inputs

- between the channels No
- between the channels and backplane bus Yes

### Permissible potential difference

between different circuits 75 V DC/60 V AC

### Isolation

Isolation tested with 2500 V DC

### Dimensions

Width 15 mm

Height 81 mm

Depth 52 mm

### Weights

Weight, approx. 35 g

**last modified:** 10/31/2018