



SIMATIC DP, Electronics module for ET 200S, 2 pulses Pulse generator and timer module, 15 mm wide, 2 channels

Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V; From power module
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
from load voltage L+ (without load), max.	40 mA
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Type of output voltage	L+ (-0.8 V)
Short-circuit protection	Yes
Output current	
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	500 mA
Power loss	
Power loss, typ.	1.8 W
Digital inputs	
Number of digital inputs	2
Input characteristic curve in accordance with IEC 61131, type 2	Yes
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 +5 V
<ul style="list-style-type: none"> <li>for signal "1"</li> </ul>	+11 to +30V
Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	9 mA
Input delay (for rated value of input voltage)	
<ul style="list-style-type: none"> <li>Input frequency (with a time delay of 0.1 ms), max.</li> </ul>	20 kHz
<ul style="list-style-type: none"> <li>Minimum pulse width for program reactions</li> </ul>	100 $\mu$ s
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	100 m
Digital outputs	
Number of digital outputs	2
Short-circuit protection	Yes
<ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>	10 A
Limitation of inductive shutdown voltage to	L+ (-50 to -65 V)
Controlling a digital input	Yes
Accuracy of pulse duration	$\pm$ (time period x 100 ppm), $\pm$ 100 $\mu$ s with a load $\leq$ 50 ohms
minimum pulse duration	100 $\mu$ s
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	10 W

<b>Output voltage</b>	
• for signal "1", min.	L+ (-1 V)
<b>Output current</b>	
• for signal "1" rated value	2 A
• for signal "1" permissible range for 0 to 60 °C, min.	7 mA
• for signal "1" permissible range for 0 to 60 °C, max.	2 A
• for signal "0" residual current, max.	0.5 mA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	100 µs
• "1" to "0", max.	200 µs
<b>Switching frequency</b>	
• with resistive load, max.	5 kHz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<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.	2 mA
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator digital output (green)	Yes
<b>Integrated Functions</b>	
<b>Pulse generator</b>	
• Number of channels	2; 1 digital input and 1 digital output per channel
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
<b>Potential separation digital outputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	40 g
<b>last modified:</b>	1/16/2021 