

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



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V; From power module
• Reverse polarity protection	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	
• Rated value	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	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	9 mA
Input delay (for rated value of input voltage)	
• Input frequency (with a time delay of 0.1 ms), max.	20 kHz
• Minimum pulse width for program reactions	100 µs
Cable length	
• shielded, max.	100 m
Digital outputs	
Number of digital outputs	2
Short-circuit protection	Yes
• Response threshold, typ.	10 A
Limitation of inductive shutdown voltage to	L+ (-50 to -65 V)
Controlling a digital input	Yes
Accuracy of pulse duration	±(time period x 100 ppm), ±100 µs with a load ≤ 50 ohms
minimum pulse duration	100 µs
Switching capacity of the outputs	
• on lamp load, max.	10 W
Output voltage	
• for signal "1", min.	L+ (-1 V)
Output current	
• 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
Output delay with resistive load	
• "0" to "1", max.	100 µs
• "1" to "0", max.	200 µs
Switching frequency	
• with resistive load, max.	5 kHz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Cable length	
• shielded, max.	1 000 m

• unshielded, max. 600 m

Encoder

Connectable encoders

- 2-wire sensor Yes
- permissible quiescent current (2-wire sensor), max. 2 mA

Interrupts/diagnostics/status information

Diagnostics indication LED

- Group error SF (red) Yes
- Status indicator digital input (green) Yes
- Status indicator digital output (green) Yes

Integrated Functions

Pulse generator

- Number of channels 2; 1 digital input and 1 digital output per channel

Potential separation

Potential separation digital inputs

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

Potential separation digital outputs

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

Isolation

Isolation tested with 500 V DC

Dimensions

Width 15 mm
Height 81 mm
Depth 52 mm

Weights

Weight, approx. 40 g

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