SIEMENS

Data sheet

6ES7138-4DD01-0AB0



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

Figure similar	
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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,	Yes
type 2	
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	100 -
• shielded, max.	100 m
Digital outputs	2
Number of digital outputs	
Short-circuit protection	Yes 10 A
Response threshold, typ. Limitation of inductive shutdown voltage to	L+ (-50 to -65 V)
	Yes
Controlling a digital input Accuracy of pulse duration	tes \pm (time period x 100 ppm), \pm 100 µs with a load \leq 50 ohms
minimum pulse duration	\pm (time period x 100 ppm), \pm 100 ps with a load \leq 50 onlines 100 µs
Switching capacity of the outputs	του μο
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 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), 	2 mA
max.	
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Group error SF (red)	Yes
Group error SF (red)Status indicator digital input (green)	Yes
 Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) 	
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Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Integrated Functions Pulse generator Number of channels Potential separation Potential separation digital inputs between the channels	Yes Yes 2; 1 digital input and 1 digital output per channel No
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