

SIEMENS

Product data sheet

6ES7138-4DD01-0AB0


SIMATIC DP,
ELECTRONIC MODULE FOR ET 200S,
2 PULSE PULSED GENERATOR AND TIMER
MODULE,
15 MM WIDE, 2 CHANNELS

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	
Output voltage	L+ (-0.8 V)
Output current, rated value	500 mA
Output current	
Short-circuit protection	Yes
Power losses	
Power loss, typ.	1.8 W
Digital inputs	

Number/binary inputs	2
Input characteristic curve acc. to IEC 61131, Type 2	Yes
Input voltage	
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	11 to 30 V
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	
Cable length, shielded, max.	100 m
Digital outputs	
Number/binary outputs	2
Functionality/short-circuit strength	Yes
Response threshold, typ.	10 A
Limitation of inductive shutdown voltage to	L+ (-50 to -65 V)
Lamp load, max.	10 W
Accuracy of pulse duration	+/- (time period x 100 ppm), +/-100 µs with a load <= 50 ohms
minimum pulse duration	100 µs
Controlling a digital input	Yes
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	
Cable length, shielded, max.	1000 m
Cable length 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 output (green)	Yes
Status indicator digital input (green)	Yes
Pulse generator	
Number of channels	2 ; 1 digital input and 1 digital output per channel
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weight

Weight, approx.

40 g

Status

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