SIEMENS

Data sheet 6ES7131-4CD02-0AB0

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	
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	
• Rated value	500 mA
• permissible range, lower limit	0 mA
• permissible range, upper limit	500 mA
Power loss	
Power loss, typ.	0.7 W
Address area	
Address space per module	
• Address space per module, max.	1 byte

Subject to change without notice
© Copyright Siemens

• with packing	4 bit
Digital inputs	
Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
• Type of input voltage	AC/DC
• Rated value (UC)	24 V; 24 ... 48 V UC (47 ... 63 Hz)
• for signal "0"	-6 to +6 V DC/ 0 to 5 V AC
• for signal "1"	-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	
• for signal "1", typ.	10 mA; 4 to 10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	15 ms
Encoder connection	
• Fixed current limitation for wire-break monitoring, min.	18 kΩ; Rated voltage 24 V (15 V to 35 V); rated voltage 48 V (30 V to 60 V): 39 kohms
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; (0.5 to 2 mA), a minimum load current is necessary for wire break diagnostics.
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Diagnoses	
• Wire-break	Yes
Diagnostics indication LED	
• Group error SF (red)	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
Isolation	
Isolation tested with	2 500 V DC

Subject to change without notice
© Copyright Siemens

Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weights	
Weight, approx.	35 g

last modified: 12/09/2020

Subject to change without notice
© Copyright Siemens