SIEMENS

Data sheet 6ES7131-4CD02-0AB0



*** Spare part *** 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

General information	
Product function	
● Isochronous mode	Yes
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	
● nominal	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
● 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	

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● 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
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	35 g

Classifications

	Version	Classification
eClass	16	27-24-26-04
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration

Miscellaneous

General Product Approval		EMV	For use in hazardous locations
	China RoHS		

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For use in hazardous locations					
FM	ATEX	UL	Miscellaneous	ATEX	IECEx

For use in hazardous locations	Maritime application				
CCC-Ex	ABS	BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai

Maritime application		
PRS	RINA	CCS (China Classification Society)

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