SIEMENS

Data sheet

6ES7131-6CF00-0AU0



SIMATIC ET 200SP, digital input module, DI 8x 24 V AC..48 V UC Basic, packing quantity: 1 unit, suitable for BU type U0, color code CC20, module diagnostics

General information	
Product type designation	DI 8x24VAC/48VUC BA
HW functional status	From FS02
Firmware version	V0.0
FW update possible	No
usable BaseUnits	BU type U0
Product function	
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V15
 STEP 7 configurable/integrated from version 	V5.6
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DI	Yes
• Counter	No
Oversampling	No
• MSI	No
Supply voltage	
Rated value (DC)	48 V
permissible range, lower limit (DC)	40.8 V
permissible range, upper limit (DC)	57.6 V
Rated value (AC)	48 V; 24 V/48 V; 50 Hz/60 Hz
permissible range, lower limit (AC)	40.8 V
permissible range, upper limit (AC)	52.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	70 mA; without sensor supply
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; Per module, 5x 20 mm fuse, 2 A/250 V, quick-response, replaceable
Output current	
● up to 60 °C, max.	1 A
24 V encoder supply	
• 24 V	No
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
Address space per module, max.	1 byte

Hardware configuration	
Automatic encoding	
 Mechanical coding element 	Yes
 Type of mechanical coding element 	type C
Selection of BaseUnit for connection variants	
1-wire connection	BU type U0
2-wire connection	BU type U0
• 3-wire connection	BU type U0 + Potential distributor module
• 4-wire connection	BU type U0 + Potential distributor module
Digital inputs	
Number of digital inputs	8
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input characteristic curve in accordance with IEC 61131, type 2	No
Input characteristic curve in accordance with IEC 61131, type 3	No
Pulse extension	No
Input voltage	
• for signal "0"	AC/DC < 10 V
• for signal "1"	AC > 14 V, DC > 34 V
Input current	
• for signal "1", typ.	3.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	20 ms
Cable length	20113
	1 000 m
shielded, max.	
• unshielded, max. Encoder	600 m
Connectable encoders	Vec
• 2-wire sensor Interrupts/diagnostics/status information	Yes
milerrupis/ulagnostics/status mormation	
Diagnostics function	Yes
Diagnostics function Alarms	
Diagnostics function Alarms • Diagnostic alarm	Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses	Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable	Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage	Yes Yes Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply	Yes Yes Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error	Yes Yes Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED	Yes Yes Yes Yes
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED)	Yes Yes Yes Yes Yes Yes; green PWR LED
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics	Yes Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No
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Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics Potential separation Potential separation channels	Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • between the channels • between the channels and backplane bus • between the channels and the power supply of the	Yes Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • between the channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics	Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable • Monitoring the supply voltage • Monitoring of encoder power supply • Group error Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • for module diagnostics • for module diagnostics • between the channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation	Yes Yes Yes Yes Yes Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
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 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	40 g

last modified:

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