SIEMENS

Data sheet

6ES7131-6TF00-0CA0



SIMATIC ET 200SP, digital input module, DI 8x NAMUR High Feature, suitable for BU type A0, Color code CC01, channel diagnostics

Product type designation DI 8xNAMUR HF HW functional status from FS04 Firmware version • FW update possible Yes usable BaseUnits BU type A0		
Firmware version Yes • FW update possible Yes usable BaseUnits BU type A0		
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usable BaseUnits BU type A0		
Color code for module-specific color identification plate CC01		
Product function		
I&M data Yes; I&M0 to I&M3		
Isochronous mode No		
Engineering with		
STEP 7 TIA Portal configurable/integrated from V13 / V13 version		
STEP 7 configurable/integrated from version V5.5 SP3 / -		
PROFIBUS from GSD version/GSD revision GSD Revision 5		
PROFINET from GSD version/GSD revision GSDML V2.3		
Operating mode		
• DI Yes		
Counter No		
Oversampling No		
• MSI No		
Supply voltage		
Rated value (DC) 24 V		
permissible range, lower limit (DC) 19.2 V		
permissible range, upper limit (DC) 28.8 V		
Reverse polarity protection Yes		
Encoder supply		
Number of outputs 8		
Short-circuit protection Yes		
24 V encoder supply		
• 24 V No		
Short-circuit protection No		
Power loss		
Power loss, typ. 1.5 W		
Address area		
Address space per module		
Address space per module, max. 1 byte; + 1 byte for QI information		
Hardware configuration		

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Type of mechanical coding element	
Type of mechanical coding element Selection of BaseUnit for connection variants	Туре А
Selection of BaseUnit for connection variants 1-wire connection	BU type A0
2-wire connection	BU type A0
3-wire connection	BU type A0 + external terminals
4-wire connection	
	BU type A0 + external terminals
Digital inputs	
Number of digital inputs	8; NAMUR
Digital inputs, parameterizable	Yes
Pulse extension	Yes; 0.5 s, 1 s, 2 s
Edge evaluation	Yes; rising edge, falling edge, edge change
Signal change flutter	Yes; 2 to 32 signal changes
Flutter observation window	Yes; 0.5 s, 1 s to 100 s in 1-s steps
Input voltage	8.2 V
Rated value (DC)	0.2 V
Input current for 10 k switched contact	
	0.35 to 1.2 mA
— for signal "0"	
— for signal "1"	2.1 to 7 mA
for unswitched contact	0.5 mA
— for signal "0", max. (permissible quiescent current)	0.0 IIIA
— for signal "1"	typ. 8 mA
for NAMUR encoders	
— for signal "0", min.	0.35 mA
— for signal "0", max.	1.2 mA
— for signal "1", min.	2.1 mA
— for signal "1", max.	7 mA
Input delay (for rated value of input voltage)	
	200 mg
tolerated changeover time for changeover contacts for standard inputs	300 ms
for standard inputs	Ne
— parameterizable	No
for NAMUR inputs	10 mg
— at "0" to "1", max.	12 ms
— at "1" to "0", max.	12 ms
Cable length	200 -
• shielded, max.	200 m
Encoder	
Connectable encoders	
 NAMUR encoder/changeover contact according to EN 60947 	Yes
Single contact / changeover contact unconnected	Yes
Single contact / changeover contact connected with	Yes
10 kΩ	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes; channel by channel
Hardware interrupt	Yes; Parameterizable, channels 0 to 7
Diagnoses	
Diagnostic information readable	Yes
 Monitoring the supply voltage 	Yes
— parameterizable	Yes
 Monitoring of encoder power supply 	No
Wire-break	Yes; channel by channel
Short-circuit	Yes; channel by channel
Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
• for onarrier diagnostics	

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• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	32 g
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