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

General information		
Product type designation	DI 8xNAMUR HF	
HW functional status	from FS04	
Firmware version		
 FW update possible 	Yes	
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 version 	V13 / V13	
 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	
Automatic encoding	
Type of mechanical coding element	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	
Rated value (DC)	8.2 V
Input current	
for 10 k switched contact	
— for signal "0"	0.35 to 1.2 mA
— for signal "1"	2.1 to 7 mA
for unswitched contact	
 for signal "0", max. (permissible quiescent current) 	0.5 mA
— for signal "1"	typ. 8 mA
for NAMUR encoders	
— for signal "0"	0.35 to 1.2 mA
— for signal "1"	2.1 to 7 mA
Input delay (for rated value of input voltage)	
 tolerated changeover time for changeover contacts 	300 ms
for standard inputs	
— parameterizable	No
for NAMUR inputs	
— at "0" to "1", max.	12 ms
— at "1" to "0", max.	12 ms
Cable length	
 shielded, max. 	200 m
Encoder	
Connectable encoders	
 NAMUR encoder/changeover contact according to EN 60947 	Yes
 Single contact / changeover contact unconnected 	Yes
\bullet Single contact / changeover contact connected with 10 $k\Omega$	Yes
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 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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