SIEMENS

Data sheet

SIMATIC ET 200SP, DIGITAL INPUT MODULE, DI 8X NAMUR HIGH FEATURE, FITS TO BU-TYPE A0, COLOR CODE CC01, CHANNEL DIAGNOSIS

General information	
Product type designation	DI 8xNAMUR HF
Firmware version	V1.0
• 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
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V13 / V13
• STEP 7 configurable/integrated as of version	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision	GSD Revision 5
• PROFINET as of 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

Digital inputs

Number of digital inputs	8
Digital inputs, parameterizable	Yes
Type	NAMUR
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	
• Type of input voltage	DC
• 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
● Single contact / changeover contact connected with 10 kΩ	Yes

Isochronous mode

Isochronous operation (application synchronized up to terminal)	No

Interrupts/diagnostics/status information

Alarms	
● Diagnostic alarm	Yes; channel by channel
● Hardware interrupt	Yes; Parameterizable, channels 0 to 7
Diagnostic messages	
● Diagnostic information readable	Yes
● Diagnostics	Yes
● Monitoring the supply voltage	Yes
— Parameterizable	Yes
● Monitoring of encoder power supply	Yes; channel by channel
● Wire-break	Yes; channel by channel
● Short-circuit	Yes; channel by channel
● Group error	Yes
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

Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)

Isolation	
Isolation tested with	707 V DC (type test)

Dimensions	
Width	15 mm

Weights	
Weight, approx.	32 g

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