



SIMATIC ET 200SP, DIGITAL INPUT MODULE, DI 8X 24VDC HIGH FEATURE FITS TO BU-TYPE A0, COLOR CODE CC01, CHANNEL DIAGNOSIS

Figure similar

Product type designation

General information

Firmware version	V1.2
Usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC01

Product function

• I&M data	Yes
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Engineering with

• STEP 7 TIA Portal can be configured/integrated as of version	V12 SP1 / V13
• STEP 7 can be configured/integrated as of version	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision	GSD Revision 5
• PROFINET as of GSD version/GSD revision	V2.3 / -

Operating mode

• Oversampling	No
• MSI	Yes

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

Output current	
24 V encoder supply	
• 24 V	Yes
• short-circuit protection	Yes
• Output current, max.	700 mA
Power losses	
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
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Pulse extension	Yes
• Length	50 ms, 100 ms, 200 ms, 500 ms, 1 s, 2 s
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
Input current	
• for signal "I", typ.	2.5 mA
for 10 k switched contact	
for unswitched contact	
for NAMUR encoders	
Input delay (for rated value of input voltage)	
for standard inputs	
— Parameterizable	Yes; 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms (in each case + delay of 30 to 500 µs, depending on line length)
for interrupt inputs	
— Parameterizable	Yes
for counter/technological functions	
for NAMUR inputs	
Cable length	
• Cable length, shielded, max.	1 000 m
• Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes

— Permissible quiescent current (2-wire sensor), max.

1.5 mA

Isochronous mode

Isochronous operation (application synchronized up to terminal)	Yes
Filtering and processing time (TCI), min.	420 µs
Bus cycle time (TDP), min.	500 µs
Jitter, max.	8 µs

Interrupts/diagnostics/status information

Alarms

- | | |
|----------------------|-----|
| • Diagnostic alarm | Yes |
| • Hardware interrupt | Yes |

Diagnostic messages

- | | |
|---------------------------------|-----|
| • Diagnostics | Yes |
| • Monitoring the supply voltage | Yes |
| • Wire break | Yes |
| • Short circuit | 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 |

Galvanic isolation

Electrical isolation channels

- | | |
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| • between the channels | No |
| • between the channels and the backplane bus | Yes |

Permissible potential difference

between different circuits	75 V DC/60 V AC (base isolation)
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Isolation

Isolation checked with	707 V DC (type test)
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Ambient conditions

Operating temperature

Extended ambient conditions

Relative humidity

Resistance

Connection method

ET-Connection

Dimensions

Width	15 mm
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Weights

Weight, approx.

28 g

last modified:

01.12.2014