



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

Product type designation

General information

Usable BaseUnits	BU type A0
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal can be configured/integrated as of version	V13 / 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	

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
Output current	
24 V encoder supply	

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
Digital inputs, configurable	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	
for interrupt inputs	
for counter/technological functions	
for NAMUR inputs	
— at "0" to "1", max.	12 ms
— at "1" to "0", max.	12 ms
Cable length	
• Cable length, shielded, max.	200 m
Encoder	
Connectable encoders	
• NAMUR encoder/changeover contact according to EN 60947	Yes

<ul style="list-style-type: none"> • Single contact / changeover contact unconnected 	Yes
<ul style="list-style-type: none"> • Single contact / changeover contact connected with 10 kΩ 	Yes
Interrupts/diagnostics/status information	
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm 	Yes; channel by channel
<ul style="list-style-type: none"> • Hardware interrupt 	Yes; Parameterizable, channels 0 to 7
Diagnostic messages	
<ul style="list-style-type: none"> • Diagnostic information readable 	Yes
<ul style="list-style-type: none"> • Monitoring the supply voltage 	Yes
<ul style="list-style-type: none"> • Wire break 	Yes
<ul style="list-style-type: none"> • Short circuit 	Yes
<ul style="list-style-type: none"> • Group error 	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
<ul style="list-style-type: none"> • Channel status display 	Yes; Green LED
<ul style="list-style-type: none"> • for channel diagnostics 	Yes; Red LED
<ul style="list-style-type: none"> • for module diagnostics 	Yes; green/red DIAG LED
Galvanic isolation	
Electrical isolation channels	
<ul style="list-style-type: none"> • between the channels 	No
<ul style="list-style-type: none"> • between the channels and the backplane bus 	Yes
<ul style="list-style-type: none"> • between the channels and the supply voltage of the electronics 	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC (type test)
Ambient conditions	
Operating temperature	
Extended ambient conditions	
Relative humidity	
Resistance	
Connection method	
ET-Connection	
Dimensions	
Width	15 mm
Weights	

Weight, approx.

32 g

last modified:

07.11.2014