



SIMATIC ET 200SP, DIGITAL INPUT MODULE,
DI 16X 24VDC STANDARD,
FITS TO BU-TYPE A0, COLOR CODE CC00,
MODULE DIAGNOSIS

General information	
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC00
Product function	
I&M data	Yes
Engineering with	
STEP 7 TIA Portal configurable/integrated as of version	V11 SP2 / V13
STEP 7 configurable/integrated as of version	V5.5 SP3 / -
PROFIBUS as of GSD version/GSD revision	GSD as of Revision 5
PROFINET as of GSD version/GSD revision	V2.3 / -
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
Input current	
Current consumption, max.	90 mA
Power loss	
Power loss, typ.	1.7 W

Address area	
Address space per module	
Address space per module, max.	2 byte
Digital inputs	
Number of digital inputs	16
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-30 to 5 V
for signal "1"	11 to 30 V
Input current	
for signal "1", typ.	2.5 mA
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)
at "0" to "1", min.	0.05 ms
at "0" to "1", max.	20 ms
at "1" to "0", min.	0.05 ms
at "1" to "0", max.	20 ms
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostics	Yes
Monitoring the supply voltage	Yes
Wire-break	Yes
Diagnostics indication LED	

Monitoring the supply voltage (PWR-LED)	Yes ; green PWR LED
Channel status display	Yes ; Green LED
for module diagnostics	Yes ; green/red DIAG LED
Galvanic isolation	
Galvanic isolation channels	
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)
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Operating temperature	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C
vertical installation, min.	0 °C
vertical installation, max.	50 °C
Dimensions	
Width	15 mm
Weights	
Weight, approx.	28 g
Status	Jul 14, 2014