

6ES7131-6BF00-0AA0

(EAN: 4047623405535)

ET 200SP, DI 8x24VDC Basic

Technical data

*** Spare part *** SIMATIC ET 200SP, digital input module, DI 8x 24 V DC Basic, packing quantity: 1 unit, suitable for BU type A0, color code CC01, module diagnostics

General information

Product type designation	DI 8x24 VDC BA
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
Isochronous mode	No

Engineering with

STEP 7 TIA Portal configurable/integrated from version	V13 SP1
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

Input current

Current consumption (rated value)	8 mA; without sensor supply
Current consumption, max.	70 mA; All channels are supplied from the encoder supply

Encoder supply

Number of outputs	8
Output voltage, min.	19.2 V
Short-circuit protection	No

24 V encoder supply

24 V	Yes
Short-circuit protection	Yes
Output current, max.	700 mA

Power loss

Power loss, typ.	1.6 W; 24 V, 8 inputs supplied via encoder supply
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Address area

Address space per module

Address space per module, max.	1 byte
Inputs	1 byte

Hardware configuration

Automatic encoding	Yes
Mechanical coding element	Yes
Type of mechanical coding element	Type A

Selection of BaseUnit for connection variants

1-wire connection	BU type A0
2-wire connection	BU type A0
3-wire connection	BU type A0 with AUX terminals
4-wire connection	BU type A0 + external terminals

Digital inputs

Number of digital inputs	8
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Pulse extension	No

Input voltage

Rated value (DC)	24 V
for signal "0"	-30 to +5 V
for signal "1"	+11 to +30V

Input current

for signal "1", typ.	6.8 mA
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Input delay (for rated value of input voltage)

for standard inputs	
— parameterizable	Yes; None / 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms (in each case + delay of 30 µs to 500 µs, depending on line length)

for interrupt inputs

— parameterizable	No
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for technological functions

— parameterizable	No
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Cable length

• shielded, max. • unshielded, max.	1 000 m 600 m
Encoder	
Connectable encoders	
• 2-wire sensor — permissible quiescent current (2-wire sensor), max.	Yes 2 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnoses	
• Diagnostic information readable • Monitoring the supply voltage — parameterizable • Monitoring of encoder power supply • Wire-break • Short-circuit	Yes Yes Yes No No No
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
• between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics	No Yes No
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g
last modified:	2/19/2021
Last changes: 09/21/2021	