SIEMENS

Data sheet

6ES7131-6BF61-0AA0



SIMATIC ET 200SP, Digital input module, DI 8x 24V DC SRC BA, type 1 (IEC 61131), source Input (NPN, M-reading) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, input delay time 0,05..20ms, module diagnostics for: supply voltage

General information	
Product type designation	DI 8x24 VDC SRC BA
HW functional status	From FS02
Firmware version	V0.0
 FW update possible 	No
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC02
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V14
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 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
Encoder supply	
Short-circuit protection	No
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
• Inputs	1 byte
Hardware configuration	
Automatic encoding	Yes
Type of mechanical coding element	type B
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 or potential distributor module
4-wire connection	BU type A0 + Potential distributor module

Digital inputs	
Number of digital inputs	8
Digital inputs, parameterizable	Yes
Source/sink input	Sourcing
Input characteristic curve in accordance with IEC 61131,	Yes
type 1	
Input voltage	
Rated value (DC)	24 V
● for signal "0"	30 V to -5 V (reference potential is L+)
● for signal "1"	-11 V to -30 V (reference potential is L+)
Input current	
● for signal "1", typ.	6 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	
shielded, max.	1 000 m
• unshielded, max.	200 m
Encoder	
Connectable encoders	
	Yes
2-wire sensor permissible guigeseent current (2 wire conser)	Yes 1.5 mA
 permissible quiescent current (2-wire sensor), max. 	AITI C.1
nterrupts/diagnostics/status information	V
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Diagnostic information readable 	Yes
 Monitoring the supply voltage 	Yes
— parameterizable	Yes
 Monitoring of encoder power supply 	No
Wire-break	No
Short-circuit	No
Diagnostics indication LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	No
• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	N-
between the channels	No
between the channels and backplane bus	Yes
between the channels and the power supply of the	No
electronics	
solation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
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Ambient conditions	
Ambient conditions Ambient temperature during operation	
Ambient conditions Ambient temperature during operation • horizontal installation, min.	-30 °C; < 0 °C as of FS02
Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max.	60 °C
Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min.	60 °C -30 °C; < 0 °C as of FS02
Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max.	60 °C

Dimensions	
Width	15 mm
Height Depth	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g

last modified: 2/1/2021 🖸