SIEMENS

Data sheet

6ES7131-6BH01-0BA0



SIMATIC ET 200SP, Digital input module, DI 16x 24V DC Standard, type 3 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 1 Piece, fits to BU-type A0, Colour Code CC00, input delay time 0,05..20ms, diagnostics wire break, diagnostics supply voltage

DI 16x24VDC ST
From FS02
/0.0
No
BU type A0
CC00
es; I&M0 to I&M3
No
/14
/5.5 SP3
/8.1 SP1
One GSD file each, Revision 3 and 5 and higher
GSDML V2.3
'es
No
No
No
4 V
9.2 V
8.8 V
'es
00 mA
No
.7 W
byte; + 2 bytes for QI information
/es
'es
ype A

Selection of BaseUnit for connection variants	DIL type AO
• 1-wire connection	BU type A0
2-wire connection	BU type A0 + Potential distributor module
3-wire connection	BU type A0 + Potential distributor module
4-wire connection	BU type A0 + Potential distributor module
igital inputs	
Number of digital inputs	16
Digital inputs, parameterizable	Yes
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
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.	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 μ s, 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.	600 m
ncoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
nterrupts/diagnostics/status information	
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	Yes; Module-by-module, optional protective circuit for preventing wire-break diagnostics in the case of simple encoder contacts: 25 kOhm to 45 kOhm
Short-circuit	No
Group error	Yes
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
otential separation	
Potential separation channels	
• between the channels	No
• between the channels and backplane bus	Yes
 between the channels and the power supply of the electronics 	No
solation	
Isolation tested with	707 V DC (type test)
tandards, approvals, certificates	
tandards, approvals, certificates	No
Suitable for safety functions mbient conditions	No

 horizontal installation, min. 	-30 °C; < 0 °C as of FS02
• HOHZOHIAI INSTALIATION, IIIII.	-30 C, < 0 C as 01 F302
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS02
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g

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