Data sheet



SIPLUS ET 200SP, digital input module, DI 16X DC 24V standard, - 40...+70°C with conformal coating based on 6ES7131-6BH01-0BA0 . type 3 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 1 Piece, passend für BU-Typ A0, Farbcode CC00, Modul-Diagnose input delay time 0,05..20ms, diagnostics wire break, diagnostics supply voltage

General information	
Product type designation	DI 16x24VDC ST
Firmware version	
 FW update possible 	No
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC00
Product function	
● I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
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
Treverse polarity protection	165
Input current	
Current consumption, max.	90 mA
Encoder supply	
24 V encoder supply	
• 24 V	No
Power loss	
Power loss, typ.	1.7 W
Address area	
Address space per module	
• Inputs	2 byte; + 2 bytes for QI information
Hardware configuration	
Automatic encoding	Yes
 Mechanical coding element 	Yes
Submodules	
 Number of configurable submodules, max. 	4
Selection of BaseUnit for connection variants	
• 1-wire connection	BU type A0
• 2-wire connection	BU type A0 + Potential isolation module
• 3-wire connection	BU type A0 + Potential isolation module
• 4-wire connection	BU type A0 + Potential isolation module
Digital 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
— 24 V DC	Yes
● 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 +
— at "0" to "1", min.	delay of 30 to 500 μs, depending on line length) 0.05 ms
at o to 1, mill.	



— at "0" to "1", max.	20 ms
— at "1" to "0", min.	0.05 ms
— at "1" to "0", max.	20 ms
length	
	4.000

shielded, max.unshielded, max.600 m

Cable

Connectable encoders

2-wire sensor
 — permissible quiescent current (2-wire sensor), max.

Interrupts/diagnostics/status information Diagnostics function Yes Alarms Yes • Diagnostic alarm Diagnostic messages Yes • Diagnostic information readable Yes • Monitoring the supply voltage Yes - parameterizable No • Monitoring of encoder power supply 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
 Group error
 Diagnostics indication LED
 Monitoring of the supply voltage (PWR-LED)
 Yes; green PWR LED

Channel status display
 for channel diagnostics
 for module diagnostics
 Yes; green LED
 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

No

	Isolation	
•	Isolation tested with	707 V DC (type test)

Standards, approvals, certificates	
Suitable for safety functions	No



• horizontal installation, min. • horizontal installation, max. Altitude during operation relating to sea level. • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressurealitude • Installation altitude above sea level, max. • On Min Timin (Tmax + 10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin (Tmax + 10 K) at 795 hPa (-3 000 m) // Tmin	Ambient conditions	
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conditions acc. to EN 60721-3-6 (6AG1193-6AA00-0AA0) Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, sacc. to EN 60721, interfaces during operation! (6AG1193-6AA00-0AA0) Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		Yes; Class 6S3 incl. sand, dust; *
— Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 — Note regarding classification of environmental conditions acc. to EN 60721, Tyes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) * The supplied plug covers must remain in place over the unused interfaces during operation!		
to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, interfaces during operation! Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) * The supplied plug covers must remain in place over the unused interfaces during operation!	Usage in industrial process technology	
measuring and control systems acc. to ANSI/ISA-71.04 concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60721, interfaces during operation!		Yes; Class 3 (excluding trichlorethylene)
 Note regarding classification of environmental conditions acc. to EN 60721, * The supplied plug covers must remain in place over the unused interfaces during operation! 	measuring and control systems acc. to	concentrations up to the limits of EN 60721-3-3 class 3C4
environmental conditions acc. to EN 60721, interfaces during operation!	Remark	
	environmental conditions acc. to EN 60721,	



Conformal coating

• Coatings for printed circuit board assemblies acc. to EN 61086

• Protection against fouling acc. to EN 60664-3

• Military testing according to MIL-I-46058C, Amendment 7

• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Class 2 for high reliability

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm

Weights	
Weight, approx.	28 g

05/09/2020 last modified: