Data sheet

SIPLUS S7-1500 DI 16x24 V DC SRC -40...+70°C with conformal coating based on 6ES7521-1BH50-0AA0 . Digital "input module ""DI 16x24 V DC," "source-input;"" ""16 channels in" "groups of 16;"" ""Input delay 3.2" "ms;"" Input type 3 (IEC 61131)"



Figure similar

General information	
Product type designation	DI 16x24VDC SRC BA
Product function	
● I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
● Fast startup	Yes; 500 ms
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	2.8 W
Digital inputs	
Number of digital inputs	16; > +60 °C, number of simultaneously controllable inputs max. 8

PNAP

Source/sink input	Yes; Sourcing
Input characteristic curve in accordance with IEC	Yes
61131, type 3	163
Input voltage	
Rated value (DC)	24 V
● for signal "0"	-5 to +30V
• for signal "1"	-11 to -30V
Input current	
● for signal "1", typ.	4.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	3 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	3 ms
— at "1" to "0", max.	4 ms
for interrupt inputs	
— parameterizable	No
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire	1.5 mA
sensor), max.	
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnoses	
Monitoring the supply voltage	No
• Wire-break	
Short-circuit	No
C.IOIL OII OUIL	No No
• Fuse blown	
	No
• Fuse blown	No
Fuse blown Diagnostics indication LED	No No
Fuse blownDiagnostics indication LEDRUN LED	No No Yes; green LED



• for channel diagnostics	No
• for module diagnostics	No
Potential separation	
Potential separation channels	
• between the channels	No
• between the channels, in groups of	16
 between the channels and backplane bus 	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)
horizontal installation, max.	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 8
• vertical installation, min.	-40 °C; = Tmin
• vertical installation, max.	40 °C; = Tmax
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure- altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	



Yes; Class 6B2 mold and fungal spores (excluding fauna); Class - to biologically active substances according to EN 60721-3-6 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-- to chemically active substances according 52 (severity degree 3); * to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * - to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Yes; Class 3 (excluding trichlorethylene) - Against chemically active substances acc. to EN 60654-4 - Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 measuring and control systems acc. to ANSI/ISA-71.04 permissible); level LC3 (salt spray) and level LB3 (oil) Remark * The supplied plug covers must remain in place over the unused - Note regarding classification of environmental conditions acc. to EN 60721, interfaces during operation! EN 60654-4 and ANSI/ISA-71.04 Conformal coating Yes; Class 2 for high reliability Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Yes; Discoloration of coating possible during service life Amendment 7 Yes; Conformal coating, Class A Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm

Weights Weight, approx. 230 g

10/13/2020 last modified:



Subject to change without notice

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