## **SIEMENS**

## **Data sheet**



SIPLUS S7-1500 DI 16x24VDC SRC based on 6ES7521-1BH50-0AA0 with conformal coating, -40...+70 °C, digital input module, 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
<ul> <li>Isochronous mode</li> </ul>	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
Source/sink input	Yes; Sourcing
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
<ul> <li>Rated value (DC)</li> </ul>	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	
<ul><li>shielded, max.</li></ul>	1 000 m
unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes

<ul> <li>permissible quiescent current (2-wire sensor),</li> </ul>	1.5 mA
max.	
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
<ul> <li>Diagnostic alarm</li> </ul>	No
Hardware interrupt	No
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	No
Wire-break	No
Short-circuit	No
Fuse blown	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	No
<ul> <li>Channel status display</li> </ul>	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	No
for module diagnostics	No
Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	16
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC (type test)
	TOT V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	40.90. Tuning (in al. and alama time (for at)
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<ul><li>horizontal installation, max.</li><li>vertical installation, min.</li></ul>	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 8 -40 °C; = Tmin
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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!
Yes; Class 2 for high reliability
Yes; Type 1 protection
Yes; Discoloration of coating possible during service life
Yes; Conformal coating, Class A
35 mm
147 mm
129 mm
230 g

12/18/2020 🖸

last modified: