

SIMATIC S7-1500, DIGITAL INPUT MODULE DI16 X AC230V, 16 CHANNELS IN GROUPS OF 4; INPUT DELAY 20MS; INPUT TYPE 1 (IEC 61131)



Figure similar

General information	
Product type designation	DI 16x230 V AC BA
HW functional status	E01
Firmware version	V2.0.0
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V12 / V12
• STEP 7 configurable/integrated as of version	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision	V1.0 / V5.1
• PROFINET as of GSD version/GSD revision	V2.3 / -
Operating mode	
• MSI	Yes
Power	
Power available from the backplane bus	1 W
Power loss	
Power loss, typ.	4.9 W

Digital inputs	
Number of digital inputs	16
m/p-reading	p-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
• Type of input voltage	AC
• Rated value (AC)	230 V; 120/230V AC, 50/60 Hz
• for signal "0"	0V AC to 40V AC
• for signal "1"	79V AC to 264V AC
Input current	
• for signal "1", typ.	11 mA; At 230 V AC and 5.5 mA at 120 V AC
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
— at "1" to "0", max.	25 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 sensor), max.	2 mA
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No
Diagnostic messages	
• Monitoring the supply voltage	No
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED

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|--|----------------|
| • ERROR LED | Yes; Red LED |
| • Monitoring of the supply voltage (PWR-LED) | No |
| • Channel status display | Yes; Green LED |
| • for channel diagnostics | No |
| • for module diagnostics | Yes; Red LED |

Potential separation

Potential separation channels

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| • between the channels | No |
| • between the channels, in groups of | 4 |
| • between the channels and backplane bus | Yes |

Permissible potential difference

between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the channels
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Isolation

Isolation tested with	2500 V DC
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Decentralized operation

Prioritized startup	Yes
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Dimensions

Width	35 mm
Height	147 mm
Depth	129 mm

Weights

Weight, approx.	300 g
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last modified:	09.11.2015
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