

SIMATIC S7-1500, digital input module DI 16x230 V AC BA, 16 channels in groups of 4; Input delay 20 ms; Input type 1 (IEC 61131): Front connector (screw terminals or push-in) to be ordered separately



Figure similar

General information	
HW functional status	FS01
Firmware version	V2.0.0
<ul style="list-style-type: none"> • FW update possible 	Yes
Product function	
<ul style="list-style-type: none"> • I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> • Prioritized startup 	Yes
Engineering with	
<ul style="list-style-type: none"> • STEP 7 TIA Portal configurable/integrated as of version 	V12 / V12
<ul style="list-style-type: none"> • STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
<ul style="list-style-type: none"> • PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1
<ul style="list-style-type: none"> • PROFINET as of GSD version/GSD revision 	V2.3 / -
Operating mode	
<ul style="list-style-type: none"> • DI 	Yes
<ul style="list-style-type: none"> • Counter 	No
<ul style="list-style-type: none"> • 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
Digital inputs, parameterizable	No
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> • Rated value (AC) • for signal "0" • for signal "1" 	230 V; 120/230 V AC, 50/60 Hz 0V AC to 40V AC 79V AC to 264V AC
Input current	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> — parameterizable — at "0" to "1", max. — at "1" to "0", max. 	No 25 ms 25 ms
for interrupt inputs	
<ul style="list-style-type: none"> — parameterizable 	No
for technological functions	
<ul style="list-style-type: none"> — parameterizable 	No
Cable length	
<ul style="list-style-type: none"> • shielded, max. • unshielded, max. 	1 000 m 600 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> • 2-wire sensor <ul style="list-style-type: none"> — permissible quiescent current (2-wire sensor), max. 	Yes 2 mA
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm 	No

• Hardware interrupt	No
Diagnostic messages	
• Monitoring the supply voltage	No
• Wire-break	No
• Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• 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	
• 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
Isolation	
Isolation tested with	3 100 V DC
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	0 °C
• vertical installation, max.	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	300 g
last modified:	10/22/2019