SIMATIC S7-1500 Digital input module, DI 32x24 V DC BA, 32 channels in groups of 16, Input delay typ. 3.2 ms, Input type 3 (IEC 61131); Delivery incl. front connector Push-in



General information		
Product type designation	DI 32x24VDC BA	
HW functional status	FS01	
Firmware version	V1.0.0	
 FW update possible 	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
• Isochronous mode	No	
Prioritized startup	Yes	
Engineering with		
 STEP 7 TIA Portal configurable/integrated as of version 	V13 / V13	
 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		
• DI	Yes	
• Counter	No	
• MSI	Yes	

Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
Power		
Power available from the backplane bus	1.05 W	
Power loss		
Power loss, typ.	3 W	
Digital inputs		
Number of digital inputs	32	
Digital inputs, parameterizable	No	
Source/sink input	P-reading	
Input characteristic curve in accordance with IEC	Yes	
61131, type 3		
Input voltage		
Rated value (DC)	24 V	
• for signal "0"	-30 to +5 V	
• for signal "1"	+11 to +30V	
Input current		
● for signal "1", typ.	2.7 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	
for technological functions		
— parameterizable	No	
Cable length		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Facility		
Encoder Connectable encoders		
• 2-wire sensor	Yes	
	1.5 mA	
 permissible quiescent current (2-wire sensor), max. 	I.J III/A	
5011501), 111ax.		
Interrupts/diagnostics/status information		

Diagnostics function	No
Alarms	
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	No
Detection of the control of the cont	
Potential separation Potential separation channels	
between the channels	No
between the channels, in groups of	16
between the channels and backplane bus	Yes
between the channels and the power supply of	No
the electronics	140
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.	0°C
horizontal installation, max.	60 °C
• vertical installation, min.	0 °C
vertical installation, max.	40 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see
- Installation diffide above sea level, max.	manual
Dimensions	
Width	25 mm
Height	147 mm
Depth	129 mm
Weights	

Weight, approx.

260 g

Other

Note: Supplied incl. 40-pole push-in front connectors

last modified: 04/03/2020