



SIMATIC S7-1500, DIGITAL INPUT MODULE DI16 X DC24V, SOURCE; 16 CHANNELS IN GROUPS OF 16; INPUT DELAY 3.2MS; INPUT TYPE 3 (IEC 61131)

Figure similar

Product type designation	
<b>General information</b>	
HW functional status	E01
Firmware version	V2.0.0
<b>Product function</b>	
• I&M data	Yes; I&M0 to I&M3
<b>Engineering with</b>	
• STEP 7 TIA Portal can be configured/integrated as of version	V12 / V12
• STEP 7 can be configured/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 / -
<b>Operating mode</b>	
• MSI	Yes
<b>Power</b>	
Power available from the backplane bus	0.9 W
<b>Power losses</b>	
Power loss, typ.	2.8 W
<b>Digital inputs</b>	
Number of digital inputs	16
m/p-reading	m-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes

<b>Input voltage</b>	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "1"	-11 to -30V
<b>Input current</b>	
• for signal "1", typ.	4.5 mA
<b>Input delay (for rated value of input voltage)</b>	
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
<b>Cable length</b>	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
<b>Encoder</b>	
Connectable encoders	
• 2-wire sensor	Yes
— Permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	No
<b>Interrupts/diagnostics/status information</b>	
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No
Diagnostic messages	
• Diagnostics	No
• Monitoring the supply voltage	No
• Wire break	No
• Short circuit	No
• Fuse blown	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
- for module diagnostics

No

No

### Galvanic isolation

#### Electrical isolation channels

- between the channels
- between the channels, in groups of
- between the channels and the backplane bus

No

16

Yes

### Permissible potential difference

between different circuits

75 V DC/60 V AC (base isolation)

### Isolation

Isolation checked with

707 V DC (type test)

### Decentralized operation

Prioritized startup

Yes

### Dimensions

Width

35 mm

Height

147 mm

Depth

129 mm

### Weights

Weight, approx.

230 g

**last modified:**

12.03.2015