6ES7323-1BH01-0AA0

Data sheet



SIMATIC S7-300, Digital module SM 323, isolated, 8DI and 8DO, 24 V DC, 0.5 A Total current 2A, 1x 20-pole

Complement	
Supply voltage	
Load voltage L+	0414
Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	40 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	3.5 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 60 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
 Type of input voltage 	DC
Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
	Yes

Switching connects of the autoute	
Switching capacity of the outputs	5 W
on lamp load, max. Load resistance range	5 W
Load resistance range	10.0
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
● for signal "1" rated value	0.5 A
for signal "1" permissible range, min.	5 mA
for signal "1" permissible range, max.	0.6 A
for signal "1" minimum load current	5 mA
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes; only outputs of the same group
Switching frequency	
with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	7/1
• shielded, max.	1 000 m
unshielded, max. unshielded, max.	600 m
Encoder	000 III
Efficación	
On an anti-ble consideration	
Connectable encoders	V
• 2-wire sensor	Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max.	Yes 2 mA
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information	2 mA
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms	
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function	2 mA
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms	2 mA No
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green)	2 mA No
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green)	2 mA No No
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green)	2 mA No No Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green)	2 mA No No Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation	2 mA No No Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs	2 mA No No Yes Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels	2 mA No No Yes Yes
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of	2 mA No No Yes Yes 8
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus	2 mA No No Yes Yes 8
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs	2 mA No No Yes Yes Yes Yes 8 Yes; Optocoupler
2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation digital outputs • between the channels	2 mA No No Yes Yes Yes Yes 8 Yes; Optocoupler
	2 mA No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes 8
• 2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • between the channels and backplane bus Potential separation digital outputs • between the channels • between the channels • between the channels • between the channels • between the channels and backplane bus Isolation	No No Yes Yes Yes Yes, Optocoupler Yes, Optocoupler
	2 mA No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes 8
	No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler
	No No Yes Yes Yes Yes, Optocoupler Yes, Optocoupler
	No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes; Optocoupler 500 V DC
Permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation Potential separation digital inputs between the channels between the channels and backplane bus Potential separation digital outputs between the channels and backplane bus Potential separation digital outputs between the channels between the channels between the channels between the channels and backplane bus Isolation Isolation Isolation tested with connection method required front connector Dimensions Width	2 mA No No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes; Optocoupler 500 V DC 20-pin 40 mm
	No No Yes Yes Yes Yes 8 Yes; Optocoupler Yes; Optocoupler 500 V DC

Weights	
Weight, approx.	220 g
last modified:	Ø.