

SIMATIC S7-300, DIGITAL MODULE SM 323, OPTICALLY ISOLATED, FOR EXPANDED TEMPERATURE RANGE 8 DI/8 DO, 24V DC, 0.5A, TOTAL CURRENT 2 A, 20 PIN

Supply voltage	
Load voltage L+	
• 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.	20 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• 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
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Number of digital outputs	8
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
• on lamp load, max.	5 W
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	

• for signal "1" rated value	500 mA
• for signal "1" minimum load current	5 mA
• for signal "0" residual current, max.	0.5 mA

#### Switching frequency

• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	100 Hz

#### Total current of the outputs (per group)

##### horizontal installation

— up to 60 °C, max.	4 A
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#### 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

### Potential separation

#### Potential separation digital inputs

• between the channels, in groups of	8
• between the channels and backplane bus	Yes; Optocoupler

#### Potential separation digital outputs

• between the channels, in groups of	8
• between the channels and backplane bus	Yes; Optocoupler

### Isolation

Isolation tested with	500 V DC
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### Connection method

required front connector	20-pin
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### Dimensions

Width	40 mm
Height	125 mm
Depth	120 mm

### Weights

Weight, approx.	220 g
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**last modified:** 03/16/2018