

SIMATIC S7-300, ANALOG OUTPUT SM 332, OPTICALLY ISOLATED, 4 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 20 PIN, REMOVE/INSERT W. ACTIVE, BACKPLANE BUS



Figure similar

### Supply voltage

#### Load voltage L+

- Rated value (DC) 24 V
- Reverse polarity protection Yes

### Input current

from load voltage L+ (without load), max.	240 mA
from backplane bus 5 V DC, max.	60 mA

### Power loss

Power loss, typ.	3 W
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### Analog outputs

Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Current output, no-load voltage, max.	18 V

### Output ranges, voltage

- 0 to 10 V Yes
- 1 V to 5 V Yes

• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ
• with voltage outputs, capacitive load, max.	1 μF
• with current outputs, max.	500 Ω
• with current outputs, inductive load, max.	10 mH
Cable length	
• shielded, max.	200 m
Analog value generation	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit; ±10 V, ±20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit
• Conversion time (per channel)	0.8 ms
Settling time	
• for resistive load	0.2 ms
• for capacitive load	3.3 ms
• for inductive load	0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH)
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to output area, (+/-)	0.5 %
• Current, relative to output area, (+/-)	0.6 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output area, (+/-)	0.4 %
• Current, relative to output area, (+/-)	0.5 %
Interrupts/diagnostics/status information	
Diagnostic functions	Yes; Parameterizable
Substitute values connectable	Yes; Parameterizable
Alarms	
• Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Potential separation	
Potential separation analog outputs	
• between the channels and backplane bus	Yes

Isolation	
Isolation tested with	500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	220 g

**last modified:** 09.04.2016