Data sheet
SM 332 (332-5HD01)

Technical data

Order no.	332-5HD01
Type	SM 332
General information	
Note	-
Features	4 outputs Configurable Voltage, current
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	125 mA
Power loss	3.5 W
Technical data analog outputs	
Number of outputs	4
Cable length, shielded	-
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	-
Current consumption from load voltage L+ (without load)	115 mA
Voltage output short-circuit protection	✔
Voltage outputs	✔
Min. load resistance (voltage range)	1 kOhm
Max. capacitive load (current range)	1 µF
Max. inductive load (current range)	30 mA
Output voltage ranges	-10 V ... +10 V 0 V ... +10 V +1 V ... +5 V
Operational limit of voltage ranges	+/-0.2% ... +/-0.8%
Basic error limit voltage ranges	+/-0.1% ... +/-0.5%
Destruction limit against external applied voltage	-
Current outputs	✔
Max. in load resistance (current range)	500 Ohm
Max. inductive load (current range)	10 mH
Max. inductive load (current range)	-
Output current ranges	-20 mA ... +20 mA 0 mA ... +20 mA +4 mA ... +20 mA
Operational limit of current ranges	+/-0.3% ... +/-0.8%
Basic error limit current ranges	+/-0.2% ... +/-0.5%
Destruction limit against external applied voltage	-
Settling time for ohmic load	0.2 ms
Settling time for capacitive load	1 ms
Settling time for inductive load	1 ms
Resolution in bit	13
Conversion time	1 ms all channels

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Substitute value can be applied	yes
Output data size	8 Byte

Status information, alarms, diagnostics

Status display	green LED per channel
Interrupts	yes
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	none
Group error display	red SF LED
Channel error display	red LED per channel

Isolation

Between channels	-
Between channels of groups to	-
Between channels and backplane bus	✔
Between channels and power supply	✔
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	-
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 60 V
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	-
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V

Datasizes

Input bytes	0
Output bytes	8
Parameter bytes	21
Diagnostic bytes	16

Housing

Material	PPE
Mounting	Rail System 300

Mechanical data

Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Weight	230 g

Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

Certifications

UL508 certification	yes

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