

Data sheet SM 032 (032-1CB40)

Technical data

Type SM 032 Module ID 050B 25DB General Information Current Note - Features 2 outputs 16Bit Current (94)20 mA Current consumption from backplane bus 60 mA Power loss 0.7 W Technical data analog outputs Number of outputs 2 Cable length, shielded 200 m Rated load voltage DC 24 V Reverse polarity protection of rated load voltage yes Current consumption from load voltage L+ (without load) 2 Voltage output short-circuit protection 2 Voltage output short-circuit protection 2 Voltage output short-circuit protection 2 Wax. capacitive load (current range) 2 Max. capacitive load (current range) 2 Max. prioutive load (current range) 2 Max. prioutive load (current range) 3 Destruction limit against external applied voltage 2 Destruction limit against external applied voltage 2 Max. in load resistance (current range) 350 Ohm	Order no.	032-1CB40
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Current outputs Max. in load resistance (current range) Max. inductive load (current range) 10 mH Typ. open circuit voltage current output 12 V Output current ranges 0 mA +20 mA +4 mA +20 mA 44 mA +20 mA Operational limit of current ranges +/-0.2% Basic error limit current ranges +/-0.1% Destruction limit against external applied voltage max. 12V (30V for 1s) Settling time for ohmic load 0.25 ms Settling time for capacitive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied	Basic error limit voltage ranges	-
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Output current ranges Oma+20 mA +4 mA+20 mA Operational limit of current ranges +/-0.2% Basic error limit current ranges +/-0.1% Destruction limit against external applied voltage max. 12V (30V for 1s) Settling time for ohmic load 0.25 ms Settling time for capacitive load - Settling time for inductive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied	Max. inductive load (current range)	10 mH
H4 mA +20 mA Operational limit of current ranges +/-0.2% Basic error limit current ranges +/-0.1% Destruction limit against external applied voltage max. 12V (30V for 1s) Settling time for ohmic load 0.25 ms Settling time for capacitive load - Settling time for inductive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied no	Typ. open circuit voltage current output	12 V
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Destruction limit against external applied voltage max. 12V (30V for 1s) Settling time for ohmic load 0.25 ms Settling time for capacitive load - Settling time for inductive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied no	Operational limit of current ranges	+/-0.2%
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Settling time for capacitive load - Settling time for inductive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied no	Destruction limit against external applied voltage	max. 12V (30V for 1s)
Settling time for inductive load 1.5 ms Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied no	Settling time for ohmic load	0.25 ms
Resolution in bit 16 Conversion time 400 µs all channels Substitute value can be applied no	Settling time for capacitive load	
Conversion time 400 µs all channels Substitute value can be applied no	Settling time for inductive load	1.5 ms
Substitute value can be applied no	Resolution in bit	16
	Conversion time	400 µs all channels
Output data size 4 Byte	Substitute value can be applied	no
	Output data size	4 Byte



Status information, alarms, diagnostics

Status information, alarms, diagnostics	
Status display	yes
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	green LED
Group error display	red LED
Channel error display	red LED per channel
Isolation	
Between channels	-
Between channels of groups to	-
Between channels and backplane bus	yes
Between channels and power supply	yes
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	-
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 50 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	4
Parameter bytes	8
Diagnostic bytes	20
Housing	
Material	PPE / PPE GF10
Mounting	Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Weight	60 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	in preparation
KC certification	yes