

Data sheet SM 032 (032-1CD30)

Technical data

Type SM 032 Module ID 0509 2560 General information Note	Order no.	032-1CD30
General information Note - Features 4 outputs 16Bit Voltage 010 V Current consumption/power loss Current consumption from backplane bus 60 mA Power loss 0.8 W Technical data analog outputs Number of outputs 4 Cable length, shielded 200 m Rated load voltage DC 24 V Reverse polarity protection of rated load voltage √ Current consumption from load voltage L+ (without load) - Voltage output short-circuit protection √ Voltage outputs √ Min. load resistance (voltage range) 5 kOhm Max. capacitive load (current range) 1 μF Max. inductive load (current range) 10 mA Output voltage ranges 0 ∨ +10 ∨	Туре	SM 032
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Max. inductive load (current range) 10 mA Output voltage ranges 0 V +10 V	Min. load resistance (voltage range)	5 kOhm
Output voltage ranges 0 V +10 V	Max. capacitive load (current range)	1 μF
	Max. inductive load (current range)	10 mA
Operational limit of voltage ranges	Output voltage ranges	0 V +10 V
Operational illinit or voltage ratiges +/-0.276	Operational limit of voltage ranges	+/-0.2%
Basic error limit voltage ranges +/-0.1%	Basic error limit voltage ranges	+/-0.1%
Destruction limit against external applied voltage -	Destruction limit against external applied voltage	-
Current outputs -	Current outputs	-
Max. in load resistance (current range) -	Max. in load resistance (current range)	-
Max. inductive load (current range) -	Max. inductive load (current range)	-
Max. inductive load (current range) -	Max. inductive load (current range)	-
Output current ranges -	Output current ranges	-
Operational limit of current ranges -	Operational limit of current ranges	-
Basic error limit current ranges -	Basic error limit current ranges	-
Destruction limit against external applied voltage -	Destruction limit against external applied voltage	-
Settling time for ohmic load 150 µs	Settling time for ohmic load	150 µs
Settling time for capacitive load 1 ms	Settling time for capacitive load	1 ms
Settling time for inductive load -	Settling time for inductive load	-
Resolution in bit 16	Resolution in bit	16
Conversion time 200 µs all channels	Conversion time	200 μs all channels
Substitute value can be applied no	Substitute value can be applied	no
Output data size 8 Byte	Output data size	8 Byte



Status information, alarms, diagnostics

Status illiorination, alarins, 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	✓
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	10
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	
UL508 certification	yes