

Data sheet

SM 031 (031-1CD40)

Technical data

TypeSM 031Module ID04/12 1544General Information-Note-Features4 & Al 16 Bit 16	Order no.	031-1CD40
General information Note - Features 4 x AI betures Current consumption/power loss 65 mA Current consumption from backplane bus 65 mA Power loss 0.8 W Technical data analog inputs 4 Cable length, shielded 200 m Rated load voltage DC 24 V Current consumption from load voltage L+ (without load) 20 mA Voltage inputs - Min. input resistance (voltage range) - Input voltage ranges - Operational limit of voltage ranges - Destruction limit voltage ranges - Basic error limit voltage ranges - Current tonges - Current tonges - Max. input resistance (current ranges) 60 Ohm Input voltage ranges - Current inputs yes Max. input resistance (current ranges) 60 Ohm Input voltage ranges - Operational limit of voltage ranges with SFU - Destruction limit current ranges with SFU - Basic error limit Current ranges wit	Туре	SM 031
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Number of inputs4Cable length, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)20 mAVoltage inputs-Min. input resistance (voltage range)-Input voltage ranges-Operational limit of voltage ranges-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Destruction limit of voltage ranges-Basic error limit voltage ranges with SFU-Destruction limit of voltage ranges with SFU-Destruction limit voltage ranges-Qurrent inputsyesMax. input resistance (current range)60 OhmInput current ranges+/-0.2%Operational limit of current ranges+/-0.2%Operational limit of current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Queralial limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges <td< td=""><td>Power loss</td><td>0.8 W</td></td<>	Power loss	0.8 W
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Voltage inputs-Min. input resistance (voltage range)-Input voltage ranges-Operational limit of voltage ranges-Operational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage-Current inputsyesMax. input resistance (current range)60 OhmInput current ranges0 mA +20 mAOperational limit of current ranges+/-0.2%Operational limit of current ranges+/-0.1%Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-	Rated load voltage	DC 24 V
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Basic error limit voltage ranges with SFU-Destruction limit voltage-Current inputsyesMax. input resistance (current range)60 OhmInput current ranges0mA +20 mA +4 mA +20 mAOperational limit of current ranges+/-0.2%Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit with SFU-Destruction limit with SFU-Destruction limit for sistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit deresistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error limit with SFU-Basic error limit with SFU-Basic error limit with SFU-Basic error limit esistance inputs-Basic error limit terter sitter inputs-Basic error limit with SFU-Basic error limit with SFU- <td>Operational limit of voltage ranges with SFU</td> <td>-</td>	Operational limit of voltage ranges with SFU	-
Destruction limit voltage-Current inputsyesMax. input resistance (current range)60 OhmInput current ranges0 mA +20 mAOperational limit of current ranges+/-0.2%Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Operational limit of resistor ranges with SFU-Basic error limit current inputs (electrical current)max. 40mAResistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer inputs-Complex complex compl	Basic error limit voltage ranges	-
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Input current ranges0 mA +20 mA +4 mA +20 mAOperational limit of current ranges+/-0.2%Operational limit of current ranges with SFU-Basic error limit current ranges+/-0.1%Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Basic error limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit-Basic error limit-Basic error limit-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Basic error limit with SFU-Destruction limit resistance inputs-<	Current inputs	yes
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Operational limit of current ranges with SFU-Basic error limit current ranges+/-0.1%Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error limit resistance inputs-Basic error limit with SFU-Destruction limit resistance inputs-Destruction limit resistance inputs-Destruction limit resistance inputs-Destruction limit resistance inputs-Destruction limit resis	Input current ranges	
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Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Operational limit of current ranges with SFU	-
Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Basic error limit current ranges	+/-0.1%
Destruction limit current inputs (electrical current)max. 40mAResistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Radical error limit current ranges with SFU	-
Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Destruction limit current inputs (voltage)	max. 24V
Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Destruction limit current inputs (electrical current)	max. 40mA
Operational limit of resistor ranges - Operational limit of resistor ranges with SFU - Basic error limit - Basic error limit with SFU - Destruction limit resistance inputs - Resistance thermometer inputs -	Resistance inputs	-
Operational limit of resistor ranges with SFU - Basic error limit - Basic error limit with SFU - Destruction limit resistance inputs - Resistance thermometer inputs -	Resistance ranges	-
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Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-	Operational limit of resistor ranges with SFU	-
Destruction limit resistance inputs - Resistance thermometer inputs -	Basic error limit	-
Resistance thermometer inputs -	Basic error limit with SFU	-
	Destruction limit resistance inputs	-
Resistance thermometer ranges -	Resistance thermometer inputs	-
	Resistance thermometer ranges	-



Operational limit of resistance thermometer ranges	-
Operational limit of resistance thermometer ranges with SFU	-
Basic error limit thermoresistor ranges	-
Basic error limit thermoresistor ranges with SFU	-
Destruction limit resistance thermometer inputs	-
Thermocouple inputs	-
Thermocouple ranges	-
Operational limit of thermocouple ranges	
Operational limit of thermocouple ranges with SFU	-
Basic error limit thermoelement ranges	-
Basic error limit thermoelement ranges with SFU	
Destruction limit thermocouple inputs	-
Programmable temperature compensation	-
External temperature compensation	-
Internal temperature compensation	-
Temperature error internal compensation	-
Technical unit of temperature measurement	-
Resolution in bit	16
Measurement principle	successive approximation
Basic conversion time	240 µs all channels
Noise suppression for frequency	>80dB (UCM<4V)
Status information, alarms, diagnostics	
Status display	yes
Interrupts	yes, parameterizable
Process alarm	yes, parameterizable
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes
Diagnostics information read-out	possible
Module state	green LED
Module 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)	DC 4 V
Max. potential difference between Mana and Mintern (Uiso)	
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	DC 75 V/ AC 50 V
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V
Technical data encoder supply	
Number of outputs	-
Output voltage (typ)	-
Output voltage (rated value)	-
Short-circuit protection	-



Binding of potential	-
Datasizes	
Input bytes	8
Output bytes	0
Parameter bytes	32
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
Net weight	60 g
Weight including accessories	60 g
Gross weight	74 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	yes