

Data sheet SM 031 - Analog input (031-1CB40)

Technical data

TypeSM 031 - Analog inputModule ID0408 1543General Information-Note-Features2's All E Ball Current 0(4)20 mACurrent Consumption/power loss0 0 MCurrent consumption from backplane bus60 MAPower loss0.7 WTechnical data analog inputs2Number of inputs200 mRatel load votage200 mRatel load votage00 mRatel load votage0.24 VCurrent consumption from load votage L+ (without load)15 mAVotage ranges0.24 VCurrent consumption from load votage L+ (without load)15 mAVotage ranges0.24 VCurrent consumption from load votage L+ (without load)15 mAVotage ranges0.24 VCurrent consumption from load votage L+ (without load)15 mAVotage ranges0.24 VCurrent ronsumption from load votage L+ (without load)15 mAVotage ranges0.24 VCurrent infu votage ranges with SFU0.24 VDestruction limit votage ranges with SFU0.24 VCurrent infu votage ranges with SFU0.24 VCurrent ranges9.24 VOperational limit of current ranges9.24 VCurrent ranges1.24 VOperational limit of current ranges9.24 VDestruction limit current ranges9.24 V<	Order no.	031-1CB40
General information Note - Features 2:x AI front consumption/power loss Current consumption from backplane bus 60 mA Power loss 0.7 W Technical data analog inputs 2 Number of inputs 2 Rate load voltage 200 m Rate load voltage DC 24 V Current consumption from load voltage L+ (without load) 15 mA Voltage inputs - Min. input resistance (voltage ranges) - Input voltage ranges - Operational limit of voltage ranges with SFU - Basic error limit voltage ranges with SFU - Destruction limit orurent ranges +00 4/m Basic error limit voltage ranges with SFU - Destruction limit orurent ranges with SFU -	Туре	SM 031 - Analog input
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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-Resistance thermometer ranges-	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-Resistance thermometer ranges-	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 thermometer ranges-	Resistance inputs	-
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Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-	Basic error limit	-
Resistance thermometer inputs - Resistance thermometer ranges -	Basic error limit with SFU	-
Resistance thermometer ranges -	Destruction limit resistance inputs	-
	Resistance thermometer inputs	-
Operational limit of resistance thermometer ranges -	Resistance thermometer ranges	-
	Operational limit of resistance thermometer ranges	-

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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 thermocouple ranges	-
Basic error limit thermocouple 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)	DC 3 V
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	-

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Datasizes	
Input bytes	4
Output bytes	0
Parameter bytes	20
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