

Data sheet

SM 031 (031-1BD30)

Technical data

Type	Order no.	031-1BD30
Module ID	Type	SM 031
Resistance inputs General information Note Features 4 inputs 12Bit Voltage 010 V Current consumption/power loss Current consumption from backplane bus 75 mA Power loss 0,7 W Technical data analog inputs Number of inputs 4 Cable length, shielded 200 m Rated load voltage DC 24 V Current consumption from load voltage L+ (without load) 15 mA Voltage inputs Wes Min. input resistance (voltage range) 100 NOhm Input voltage ranges 0 V +10 V Operational limit of voltage ranges with SFU Basic error limit voltage ranges with SFU Destruction limit voltage max: 30V Current inputs Max: input resistance (current ranges) Input current ranges Operational limit of current ranges Poperational limit of current ranges Operational limit of current ranges Poperational limit of current ranges Operational limit of current ranges Poperational limit of current ranges Operational limit of current ranges Poperational limit of current ranges Poperational limit of current ranges Poperational limit of current ranges with SFU Destruction limit current ranges Poperational limit of current ranges with SFU Passic error limit current ranges Poperational limit of current ranges with SFU Destruction limit current inputs Passic error limit current inputs Passic error limit current inputs Postruction limit current inputs Poperational limit of current inputs Poperational limit of current inputs Poperational limit of resistor ranges Operational limit of resistor ranges with SFU Basic error limit current limputs (electrical current) Passic error limit current limputs (electrical current) Passic error limit current limputs (electrical current) Passic error limit current limit current limputs (electrical current) Passic error limit electror limit current limputs (elect	- ''	
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Operational limit of voltage ranges	Min. input resistance (voltage range)	100 kOhm
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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	. A YASKAWA COMPANY
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	12
Measurement principle	successive approximation
Basic conversion time	4 ms all channels
Noise suppression for frequency	>50dB at 50Hz (UCM<2V)
Status information, alarms, diagnostics	
Status display	yes
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
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 2 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
Datasizes	
Input bytes	8
Output bytes	0
Parameter bytes	8



Diagnostic bytes	20	A YASKAWA COMPANY	
Housing			
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	yes		
KC certification	yes	yes	
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