

Data sheet

SM 031 (031-1CB40)

Technical data

TypeSM 031Module ID040B 1543General information-Note-Features2 Inputs 16BH Current consumption/power lossCurrent consumption/power loss80 mACurrent consumption from backplane bus80 mAPower loss0.7 WTechnical data analog inputs2Number of inputs2Carlent consumption from backplane bus00 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputs-Min. Input resistance (voltage ranges)-Input veistance (voltage ranges)-Operational limit of voltage ranges-Operational limit of voltage ranges+/<0.2%Operational limit of voltage-Operational limit of current ranges+/<0.2%Operational limit of current ranges-Operational limit of current ranges with SFU-Destruction limit current ranges with SFU-Operational limit of current ranges+/<0.2%Operational limit of current ranges with SFU-Destruction limit current rang	Order no.	031-1CB40
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	Destruction limit resistance inputs	-
Resistance thermometer inputs -	Resistance thermometer inputs	-
Resistance thermometer ranges -	Resistance thermometer ranges	-



Operational limit of resistance thermometer ranges - Operational limit of resistance thermometer ranges with SFU - Basic error limit thermoresistor ranges - Destruction limit resistance thermometer inputs - Thermocouple inputs - Thermocouple ranges - Operational limit of thermocouple ranges - Basic error limit thermocouple inputs - Destruction limit thermocouple inputs - Programmable temperature compensation - Internal temperature compensation - Temperature error internal compensation - Temperature error internal compensation - Resolution linit <t< th=""><th>ITROLS</th></t<>	ITROLS
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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)

Max. potential difference between Mana and Mintern (Uiso)

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

Datasizes

DC 4 V

DC 75 V/ AC 50 V

-DC 3 V

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DC 500 V



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	-	
Gross weight	-	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL certification	yes	
KC certification	yes	