

Data sheet SM 031 - Analog input (031-1BB30)

Technical data

TypeSM 031 - Analog inputModule ID0401 16C3General Information-Note-Features2's All Stall Voltage 010 VCurrent consumption/power loss0 mACurrent consumption from backplane bus80 mAPower loss0.7 WTechnical data analog inputs2Number of inputs0.2 4 VCable length, shialed200 mRated load voltage15 mAVoltage inputs90 VVoltage ranges100 kOhmInput resistance (voltage ranges)100 kOhmInput resistance (voltage ranges)4/03%Operational limit of voltage ranges4/02%Basic error limit voltage ranges9Structurent ranges2Operational limit of voltage ranges2Input resistance (current ranges)2Input resistance (current ranges)2Structurent ranges2Operational limit of voltage ranges with SFU2Operational limit of current ranges2Input resistance (current ranges)2Input resistance (current ranges)2Structurent ranges2Operational limit of current ranges2Racie arror limit voltage anges with SFU2Operational limit of current ranges2Structurent ranges2Structurent ranges2Racie area limit current ranges2Racie area limit of current ranges2Racie area limit current ranges2 <td< th=""><th>Order no.</th><th>031-1BB30</th></td<>	Order no.	031-1BB30	
General informationNote-Features2x AI 2x BI 2x BICurrent consumption/power lossBornACurrent consumption from backplane busBornAPower lossBornAPower lossBornAPower lossPower lossBornAPower lossPower loss <td colspa<="" th=""><th>Туре</th><th>SM 031 - Analog input</th></td>	<th>Туре</th> <th>SM 031 - Analog input</th>	Туре	SM 031 - Analog input
Note - Features 2: A filt Features 2: A filt Current consumption from backplane bus 80 mA Power loss 0.7 W Technical data analog inputs 2 Number of inputs 2 Carlen consumption from backplane bus 0.7 W Technical data analog inputs 2 Cable length, shielded 200 m Carlen consumption from load voltage L+ (without load) 15 mA Votage inputs yes Min. input resistance (voltage range) 100 kOhm Input votage ranges 0 // +10 V Operational limit of voltage ranges with SFU - Destruction limit voltage ranges with SFU - Max. input resistance (current ranges) - Max. input resistance (current ranges) - Max. input resistance (current ranges) - Nax. input resistance (current ranges) - Max. input resistance (current ranges) - Input current ranges with SFU - Destruction limit of current ranges with SFU - Rasice	Module ID	0401 15C3	
Features 2X AII 12 Bit 12 Bit 12 Bit Current consumption/power loss 80 mA Power loss 0.7 W Technical data analog inputs 2 Number of inputs 2 Cathe length, shielded 200 m Rated load voltage DC 24 V Current consumption from load voltage L+ (without load) 15 mA Voltage inputs yes Min. input resistance (voltage range) 100 kOhm Input voltage ranges 0V +10 V Operational limit of voltage ranges +/-0.3% Destruction limit voltage ranges with SFU - Basic error limit voltage ranges with SFU - Destruction limit voltage ranges with SFU - Max. input resistance (current range) - Max. input resistance (current ranges) - Max. input resistance (current ranges) - Max. input resistance (current ranges) - Input current ranges - Querational limit of current ranges with SFU - Destruction limit current ranges with SFU - Basic error limit current ranges with SFU - Destruction limit of	General information		
12 bits 2 bits 2 bits12 bits 2 bitsCurrent consumption from backplane bus80 mAPower los0.7 WTechnical data analog inputs2Number of inputs2Rated load voltage (Lata analog inputs)DC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges4/0.3%Operational limit of voltage ranges4/0.3%Operational limit of voltage ranges4/0.2%Basic error limit voltage ranges4/0.2%Basic error limit voltage ranges-Destruction limit voltage ranges-Current names-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges-Current ranges-Current ranges-Current ranges-Operational limit of current ranges-Current ranges-Current ranges-Current ranges-Current ranges-Destruction limit current ranges with SFU-Destruction limi	Note	-	
Current consumption from backplane bus80 mAPower loss0.7 WTechnical data analog inputs0.7 WTechnical data analog inputs2Cable length, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage ranges)100 kOhmInput voltage ranges4/0.03%Operational limit of voltage ranges4/0.23%Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges-Max. input resistance (vortrange)-Portuotal limit of voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage-Querter tranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Destruction limit current ranges with SFU-	Features	12 Bit	
Power loss0.7 WTechnical data analog inputsNumber of inputs2Cable length, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational limit of voltage ranges+/-0.3%Operational limit of voltage ranges+/-0.3%Operational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Current inputs-Max. input resistance (current range)-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges with SFU-Basic 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-Operational limit of resistor ranges-Operational limit of resistor ranges-Operati	Current consumption/power loss		
Technical data analog inputsNumber of inputs2Cable length, shielded200 mRated lead voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational 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-Max. input resistance (voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Max. input resistance (current range)-Input current ranges-Operational limit of resistor ranges-Operational limit	Current consumption from backplane bus	80 mA	
Number of inputs2Cable length, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)00 kOhmOperational limit of voltage ranges0 V +10 VOperational 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-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Current inputs-Current inputs-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Racical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance ranges-Operational limit of current ranges-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Resistance ranges-Operational limit of resistor ranges- </td <td>Power loss</td> <td>0.7 W</td>	Power loss	0.7 W	
Number of inputs2Cable length, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)00 kOhmOperational limit of voltage ranges0 V +10 VOperational 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-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Current inputs-Current inputs-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Racical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance ranges-Operational limit of current ranges-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges-Resistance ranges-Operational limit of resistor ranges- </td <td>Technical data analog inputs</td> <td></td>	Technical data analog inputs		
Rated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational limit of voltage ranges0 V +10 VOperational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Current inputs-Current inputs-Current ranges-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Current inputs-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance inputs-Coperational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit resistor ranges-Operational limi		2	
Rated load voltageDC 24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational limit of voltage ranges0 V +10 VOperational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Current inputs-Current inputs-Current ranges-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Current inputs-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance inputs-Coperational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit resistor ranges-Operational limi	· · ·	200 m	
Voltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational limit of voltage ranges+/-0.3%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 ranges+/-0.2%Basic error limit voltage ranges with SFU-Destruction limit voltagemax. 30VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Destruction limit current inputs (selectical current)-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resi		DC 24 V	
In. input resistance (voltage range)100 kOhmInput voltage ranges0 V +10 VOperational limit of voltage ranges+/-0.3%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 ranges-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit time resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit resistance inputs	Current consumption from load voltage L+ (without load)	15 mA	
Input voltage ranges0 V +10 VOperational limit of voltage ranges+/0.3%Operational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Current inputs-Max. input resistance (current range)-Operational limit of current ranges-Operational limit of current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance ranges-Operational limit of resistor ranges with SFU-Destruction limit of resistor ranges with SFU-Destruction limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit resistance inputs-Basic error limit-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Basic err	Voltage inputs	yes	
Procession+/-0.3%Operational limit of voltage ranges+/-0.3%Operational limit of 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 ranges with SFU-Current inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-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)-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Operational limit of resistor ranges-Operational limit of resistor ranges-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Destruction limit resistance inputs- <td>Min. input resistance (voltage range)</td> <td>100 kOhm</td>	Min. input resistance (voltage range)	100 kOhm	
Operational limit of voltage ranges-Basic error limit voltage ranges+/-0.2%Basic error limit voltage ranges with SFU-Destruction limit voltagemax. 30VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges-Radical error limit current ranges-Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Basic error limit with SFU-Basic error limit with SFU-Basic error limit with SFU-Basic error limit with SFU-Basic error limit tesistance inputs-Basic error limit tesistance 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 tesistance inputs-Basic error limit tesistance inputs-Basic error limit with SFU-Bas	Input voltage ranges	0 V +10 V	
Basic error limit voltage ranges+/-0.2%Basic error limit voltage ranges with SFU-Destruction limit voltagemax. 30VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Destruction limit current inputs (selectrical current)-Destruction limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit dire seistor ranges-Operational limit of resistor ranges with SFU-Basic error limit with SFU-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error lim	Operational limit of voltage ranges	+/-0.3%	
Basic error limit voltage ranges with SFU-Destruction limit voltagemax. 30VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Destruction limit current inputs (selectrical current)-Destruction limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Operational limit of resistor ranges with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Destruction limit resistance inputs-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermomete	Operational limit of voltage ranges with SFU		
Destruction limit voltagemax. 30VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit current inputs (electrical current)-Destruction limit current inputs (electrical current)-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges- <tr< td=""><td>Basic error limit voltage ranges</td><td>+/-0.2%</td></tr<>	Basic error limit voltage ranges	+/-0.2%	
Current inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Destruction limit or resistor ranges-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Basic error limit resistance inputs-Resistance thermometer inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges <t< td=""><td>Basic error limit voltage ranges with SFU</td><td>-</td></t<>	Basic error limit voltage ranges with SFU	-	
Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Basic error limit-Operational limit of resistor ranges with SFU-Basic error limit-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit resistance inputs-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges- <td>Destruction limit voltage</td> <td>max. 30V</td>	Destruction limit voltage	max. 30V	
Input current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges-Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (lectrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Destruction limit current inputs (lectrical current)-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-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-Resistance thermometer inputs-Resistance thermometer ranges-Herror Herror Pages-Herror Herror Pages-Destruction limit resistance inputs-Resistance thermometer ranges-Herror Herror Pages-Herror Herror Pages-Herror Herror Pages-Herror Herror Pages-Herror Herror Pages-Herror Herror Pag	Current inputs	-	
Operational limit of current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges-Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (lectrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Destruction limit current inputs (lectrical current)-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-Resistance thermometer ranges-R	Max. input resistance (current range)	-	
Operational limit of current ranges with SFU-Basic error limit current ranges-Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-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 ranges-Resistance	Input current ranges	-	
Basic error limit current ranges-Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit-Destruction limit resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit-Basic error limit to fresistor ranges with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges- <td>Operational limit of current ranges</td> <td>-</td>	Operational limit of current ranges	-	
Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-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-Resistance thermometer ranges-Resistance thermometer ranges-	Operational limit of current ranges with SFU	-	
Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-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-Resistance thermometer ranges-Resistan	Basic error limit current ranges	-	
Destruction limit current inputs (electrical current)-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-Resistance thermometer ranges-	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-Resistance thermometer ranges-	Destruction limit current inputs (voltage)	-	
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 ranges-Resistance thermometer ranges-	Destruction limit current inputs (electrical current)	-	
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	-	
Operational limit of resistor ranges with SFU - Basic error limit - Basic error limit with SFU - Destruction limit resistance inputs - Resistance thermometer ranges -	Resistance ranges		
Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-	Operational limit of resistor ranges	-	
Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-	Operational limit of resistor ranges with SFU	-	
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	-	

YASKAWA

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	12
Measurement principle	successive approximation
Basic conversion time	2 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
Technical data encoder supply	
Number of outputs	
Output voltage (typ)	-
Output voltage (rated value)	-
Short-circuit protection	-
Binding of potential	-

YASKAWA

Datasizes	
Input bytes	4
Output bytes	0
Parameter bytes	6
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	59 g
Weight including accessories	59 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