

Data sheet SM 031 - Analog input (031-1BB90)

Technical data

Current consumption from backplane bus85 mAPower loss1.1 WTechnical data analog inputs2Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without lod)30 mAVoltage inputs-Min. input resistance (voltage ranges)10 MOhmInput voltage rangese00 mV +80 mVOperational limit of voltage rangese0.25%Basic error limit voltage ranges with SFUe0.25%Basic error limit voltage ranges with SFUe0.25%Current noput resistance (vortranges)e0.25%Destruction limit of voltage rangese0.25%Basic error limit voltage ranges with SFUe0.46%Operational limit of current rangese0.25%Destruction limit voltagee0.25%Basic error limit voltagee0.25%Current inputs-Operational limit of current rangese0.25%Destruction limit voltagee0.25%Basic error limit voltagee0.25%Current inputs-Operational limit of current rangese0.25%Destruction limit current inputse0.25%Destruction limit de current rangese0.25%Basic error limit voltagee0.25%Destruction limit current inputse0.25%Destruction limit current ranges with SFUe1.26%Destruction limit current inputs (voltage)e1.26%Destruction limit current ranges with SFUe1.26%Destruction limit current ranges with SFU <th>Order no.</th> <th>031-1BB90</th>	Order no.	031-1BB90
General information Note - Features 2x AI for the bit Voltage s0 mV+80 mV Voltage s0 mV+80 mV Current consumption/power loss 85 mA Current consumption from backplane bus 85 mA Power loss 1.1 W Technical data analog inputs 2 Number of inputs 2 Cable longth, shielded 200 m Rated voltage power section supply DC 24 V Current consumption from power section supply (without load) 30 mA Voltage inputs - Min. input resistance (voltage ranges) 10 MOhm Input voltage ranges 40.3% Operational limit of voltage ranges with SFU 40.3% Operational limit of voltage ranges with SFU 40.6% Destruction limit voltage - Gurrent ranges - Operational limit of uortent ranges - Operational limit of current ranges - Destruction limit of current ranges - Destruction limit of current ranges with SFU - Destruction limit current ranges with SFU -	Туре	SM 031 - Analog input
Note - Features 2x A Beatures 2x A Beatures Features 2x A Beatures 2x A Beatures Current consumption/power loss 55 mA Power loss 1.1 W Technical data analog inputs 2 Sumber of inputs 2 Cable length, shielded 200 m Rated voltage power section supply DC 24 V Current consumption from power section supply (without load) 30 mA Number of inputs - Min. input resistance (voltage ranges) 10 MOhm Input voltage ranges 400 mV +80 mV Operational limit of voltage ranges with SFU 40.3% Destruction limit voltage ranges with SFU 40.05% Basic error limit voltage ranges with SFU 40.05% Destruction limit voltage ranges with SFU - Querational limit of current ranges - Raise error limit voltage ranges with SFU - Destruction limit voltage ranges with SFU - Destruction limit voltage ranges with SFU - Destruction limit voltage ranges with SFU -	Module ID	0403 1543
Features 2x AI 16 Bit 16 Bit 10 Bit 2000 Current consumption/power loss Current consumption from backplane bus 85 mA Power loss 1.1 W Technical data analog inputs 2 Cable length, shielded 200 m Read vottage power section supply DC 24 V Current consumption from power section supply (without load) 30 mA Votage inputs - Min. input resistance (voltage ranges 80 mV +80 mV Operational limit of voltage ranges 40.3% Operational limit of voltage ranges with SFU 2.0.1% Basic error limit voltage ranges with SFU 0.05% Destruction limit voltage ranges with SFU 0.05% Destruction limit voltage ranges with SFU 0.05% Basic error limit voltage ranges with SFU 0.05% Destruction limit voltage ranges with SFU 0.05% Destruction limit voltage ranges with SFU 0.05% Basic error limit voltage ranges with SFU - Basic error limit voltage ranges with SFU - Basic error limit voltage ranges - Basic error limit voltage ranges - Basic error limit current ranges - Basic error limit voltage ranges - Destruction limit current ranges - <t< td=""><td>General information</td><td></td></t<>	General information	
16 Bit brown with the set on the	Note	-
Current consumption from backplane bus85 mAPower loss1.1 WTechnical data analog inputs2Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without lod)30 mAVoltage inputs-Min. input resistance (voltage ranges)10 MOhmInput voltage rangese00 mV +80 mVOperational limit of voltage rangese0.25%Basic error limit voltage ranges with SFUe0.25%Basic error limit voltage ranges with SFUe0.25%Current noput resistance (vortranges)e0.25%Destruction limit of voltage rangese0.25%Basic error limit voltage ranges with SFUe0.46%Operational limit of current rangese0.25%Destruction limit voltagee0.25%Basic error limit voltagee0.25%Current inputs-Operational limit of current rangese0.25%Destruction limit voltagee0.25%Basic error limit voltagee0.25%Current inputs-Operational limit of current rangese0.25%Destruction limit current inputse0.25%Destruction limit de current rangese0.25%Basic error limit voltagee0.25%Destruction limit current inputse0.25%Destruction limit current ranges with SFUe1.26%Destruction limit current inputs (voltage)e1.26%Destruction limit current ranges with SFUe1.26%Destruction limit current ranges with SFU <td>Features</td> <td>16 Bit Voltage -80 mV…+80 mV</td>	Features	16 Bit Voltage -80 mV…+80 mV
Power loss1.1 WTechnical data analog inputsNumber of inputs2Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)30 mAVoltage inputs-Min. input resistance (voltage range)10 MOhmInput voltage ranges+80 mV +80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges±0.1%Basic error limit voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges±0.25%Basic error limit voltage ranges-Max. input resistance (current range)-Input current ranges-Max. input resistance (current range)-Input current ranges-Input current ranges-Operational limit of current ranges-Radical error limit current ranges-Radical error limit current ranges-Basic error limit current ranges-Destruction limit current ranges-Radical error limit current ranges-Resistance inputs-Resistance inputs-Resistance inputs-Basic error limit inf of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit of resistor ranges- <td< td=""><td>Current consumption/power loss</td><td></td></td<>	Current consumption/power loss	
Technical data analog inputs Number of inputs 2 Cable length, shielded 200 m Rated voltage power section supply DC 24 V Current consumption from power section supply (without load) 30 mA Voltage inputs - Min. input resistance (voltage range) 10 MOhm Input voltage ranges +80 mV Operational limit of voltage ranges ±0.3% Operational limit of voltage ranges with SFU ±0.1% Basic error limit voltage ranges with SFU ±0.05% Destruction limit voltage ranges with SFU ±0.05% Destruction limit voltage ranges with SFU ±0.05% Max. input resistance (current range) - Max. input resistance (current ranges) - Input 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 - <	Current consumption from backplane bus	85 mA
Number of inputs2Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)30 mAVoltage inputs-Min. input resistance (voltage range)10 MOhmInput voltage ranges-80 mV +80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU=0.25%Basic error limit voltage ranges with SFU=0.25%Destruction limit voltage ranges with SFU=0.25%Destruction limit voltagemax. 20VCurrent ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges with SFU-Operational limit of current ranges with SFU-Operational limit of current ranges-Operational limit of current ranges with SFU-Destruction limit of resistor ranges-Operational limit of resisto	Power loss	1.1 W
Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)30 mAVoltage inputs-Min. input resistance (voltage range)10 MOhmInput voltage ranges-Operational limit of voltage ranges-Operational limit of voltage ranges-Saice error limit voltage ranges with SFU±0.1%Basic error limit voltage ranges±0.25%Basic error limit voltage ranges±0.25%Current inputs-Current range±0.05%Destruction limit of current range)-Input resistance (current range)-Input resistance (current range)-Input resistance (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-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-Destruction limit current ranges with SFU-Resistance inputs-Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Seistance run limit with SFU-	Technical data analog inputs	
Rated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)30 mAVoltage inputs-Min. input resistance (voltage range)10 MOhmInput voltage ranges-80 mV +80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges±0.05%Destruction limit voltage ranges-Max. input resistance (current range)-Max. input resistance (current ranges)-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges-Radical error limit current ranges-Radical error 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 for resistor ranges-Operational limit for resistor ranges-Operational limit for resistor ranges-Operational limit for resistor ranges-Basic error limit- <td>Number of inputs</td> <td>2</td>	Number of inputs	2
Current consumption from power section supply (without load)30 mAVoltage inputs-Min. input resistance (voltage ranges)10 MOhmInput voltage ranges+80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage rangesmax. 20VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-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-Basi	Cable length, shielded	200 m
Voltage inputs-Min. input resistance (voltage range)10 MOhmInput voltage ranges-80 mV +80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Basic error limit current ranges-Basic error limit current ranges-Destruction limit current ranges-Basic error 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 inputs-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit current inputs (SFU-Operational limit of resistor ranges with SFU-Operational limit of resistor ranges with SFU<	Rated voltage power section supply	DC 24 V
In. input resistance (voltage range)10 MOhmInput voltage ranges-80 mV +80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (voltage)-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic	Current consumption from power section supply (without load)	30 mA
Input voltage ranges-80 mVOperational limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges with SFU±0.25%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltage ranges with SFU±0.05%Destruction limit voltage ranges±0.25%Basic error limit voltage ranges±0.05%Destruction limit voltage ranges±0.05%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 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 (electrical current)-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit tor resistor ranges with SFU-Destruction limit tor resistor ranges with SFU-Destructional limit of resistor ranges with SFU-Destruction limit tor resistor ranges with SFU-	Voltage inputs	-
Determinal limit of voltage ranges±0.3%Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges±0.25%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltagemax. 20VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of ourrent ranges-Operational limit of 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)-Operational limit of resistor ranges-Operational limit of resistor ranges-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Destruction limit resistance inputs-Resista	Min. input resistance (voltage range)	10 MOhm
Operational limit of voltage ranges with SFU±0.1%Basic error limit voltage ranges±0.25%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltagemax. 20VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-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 with SFU-Basic error 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-Operational limit of resistor ranges with SFU-Basic error limit-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error limit with SFU-	Input voltage ranges	-80 mV +80 mV
Basic error limit voltage ranges±0.25%Basic error limit voltage ranges with SFU±0.05%Destruction limit voltagemax. 20VCurrent 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 (selectrical current)-Resistance ranges-Operational limit of resistor ranges with SFU-Basic error limit for seistor ranges with SFU-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Basic error limit with SFU <td>Operational limit of voltage ranges</td> <td>±0.3%</td>	Operational limit of voltage ranges	±0.3%
Basic error limit voltage ranges with SFU±0.05%Destruction limit voltagemax. 20VCurrent inputs-Max. input resistance (current range)-Input current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Basic error limit current ranges-Operational limit of current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current inputs (voltage)-Destruction limit current inputs (selectrical current)-Resistance ranges-Operational 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-Basic error limit with SFU-Destruction limit resistance inputs-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges	Operational limit of voltage ranges with SFU	±0.1%
Destruction limit voltagemax. 20VCurrent 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-Radical error limit current ranges with SFU-Destruction limit 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-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit-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 ranges-Resistance thermometer ranges <td< td=""><td>Basic error limit voltage ranges</td><td>±0.25%</td></td<>	Basic error limit voltage ranges	±0.25%
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 of resistor ranges-Resistance ranges-Operational limit of resistor ranges-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 tersistance inputs-Basic error limit with SFU-Basic error limit with SFU-Basic error limit tersistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Basic ertor limit resistance inputs-Basic ertor limit terror limit space-Basic ertor limit with SFU-Basic ertor limit with SFU-Basic ertor limit with SFU-Basic ertor limit resistance inputs	Basic error limit voltage ranges with SFU	±0.05%
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 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-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance ther	Destruction limit voltage	max. 20V
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 (electrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges with SFU-Destruction limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Basic error limit-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges-	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 (electrical current)-Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-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 ranges-	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-Basic error limit-Basic error limit with SFU-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-	Input current ranges	-
Provide 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-Basic error limit with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-	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-Resistance thermometer ranges-Resistance thermometer ranges-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 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 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 ranges-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	-

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Operational limit of resistance thermometer ranges with SFU -

Basic error limit thermonesistor ranges with SFU - Basic error limit thermonesistor ranges with SFU - Thermocouple inputs yes Thermocouple ranges Yep B Yep	Operational limit of resistance thermometer ranges with SFU	-
Destruction limit resistance thermometer inputs - Thermocouple inputs yes Thermocouple ranges type B VPOP E VPOP E VPOP E VPOP E VPOP E VPOP E Thermocouple ranges Type C, L, T, J, K, N: ±2.5K/ Type B, C, R, S: ±8.0K Operational limit of thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.5K/ Type B, C, R, S: ±4.0K Basic error limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.5K/ Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type C, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction compensation yes External temperature compensation yes Temperature error internal compensation yes Temperature error internation, alarms, diagnostics Sigma-Detta Basic conversion time 4.2	Basic error limit thermoresistor ranges	-
Thermocouple inputs yes Thermocouple ranges type B type D type	Basic error limit thermoresistor ranges with SFU	-
Thermodouple ranges type B bype C Operational limit of thermocouple ranges Type E, L, T, J, K, N: ±2.5K / Type B, C, R, S: ±3.0K Operational limit of thermocouple ranges Type E, L, T, J, K, N: ±2.5K / Type B, C, R, S: ±4.0K Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±2.0K / Type B, C, R, S: ±3.0K Deperational limit of thermocouple ranges with SFU Type E, L, T, J, K, N: ±2.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±0.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges max. 20V Programmable tomperature compensation yes External temperature compensation yes Temperature error internal compensation yes Temperature error internal compensation yes Noise suppression for frequency >o00dB at 50Hz (UCM-foty) Status display yes Noise suppression for frequency yes Process atam yes, parameterizable Diagnostic functions yes, parameterizable Diagnostic functions yes Diagnostic functions yes Diagnostic functions yes Diagno	Destruction limit resistance thermometer inputs	-
ivpe I ivpe J Vipe I ivpe I Vipe I Type E, L, T, J, K, N: ±15K / Type B, C, R, S: ±4.0K Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple ranges max. 20V Programmable temperature compensation yes Lennal temperature compensation yes Temperature error internal compensation yes Resolution in bi 16 Measurement principle Sigma-Detta Basic conversion time 4.2	Thermocouple inputs	yes
Operational limit of thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.5K/ Type B, C, R, S: ±4.0K Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±2.0K / Type B, C, R, S: ±7.0K Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple inputs max.20V Programmable temperature compensation yes External temperature compensation yes Temperature compensation yes Temperature compensation yes Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >900dB at 50Hz (UCM<10V)	Thermocouple ranges	type E type J type K type L type N type R type S type T
Basic error limit thermocouple ranges Type E, L, T, J, K, N: ±2.0K / Type B, C, R, S: ±7.0K Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K Destruction limit thermocouple inputs max. 20V Programmable temperature compensation yes Intenal temperature compensation yes Temperature compensation yes Temperature compensation yes Temperature error internal compensation 1 K Technical unit of temperature measurement °C, °F, K Resolution in bit 16 Measurement principle Sigma-Delta Basic onversion for frequency >9008 at 50Hz (UCM<10V)	Operational limit of thermocouple ranges	Type E, L, T, J, K, N: ±2.5K / Type B, C, R, S: ±8.0K
Basic error limit thermocouple ranges with SFU Type E, L, T, J, K, N: ±1.0K/ Type B, C, R, S: ±3.0K Destruction limit thermocouple inputs max. 20V Programmable temperature compensation yes External temperature compensation yes Internal temperature compensation yes Temperature error internal compensation 1K Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >90dB at 50Hz (UCM<10V)	Operational limit of thermocouple ranges with SFU	Type E, L, T, J, K, N: ±1.5K / Type B, C, R, S: ±4.0K
Destruction limit thermocouple inputs max. 20V Programmable temperature compensation yes External temperature compensation yes Temperature error internal compensation 1 K Technical unit of temperature measurement °C. °F. K Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >90dB at 50Hz (UCM<10V)	Basic error limit thermocouple ranges	Type E, L, T, J, K, N: ±2.0K / Type B, C, R, S: ±7.0K
Programmable temperature compensation yes External temperature compensation yes Temperature compensation 1 K Temperature error internal compensation 1 K Technical unit of temperature measurement °C, °F, K Resolution in bit 16 Measurement principle Sigma-Detta Basic conversion time 4.2324.1 rms (50 Hz) 3.8270.5 rms (60 Hz) per channel Noise suppression for frequency >90dB at 50Hz (UCM<10V)	Basic error limit thermocouple ranges with SFU	Type E, L, T, J, K, N: ±1.0K / Type B, C, R, S: ±3.0K
zetranal temperature compensation yes Internal temperature compensation 1 K Temperature error internal compensation 1 K Technical unit of temperature measurement °C, °F, K Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >900B at 50Hz (UCM<10V)	Destruction limit thermocouple inputs	max. 20V
Internal temperature compensation yes Temperature error internal compensation 1 K Technical unit of temperature measurement *C, *F, K Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >90dB at 50Hz (UCM<10V)	Programmable temperature compensation	yes
Temperature error internal compensation 1 K Technical unit of temperature measurement °C, °F, K Resolution in bit 16 Measurement principle Sigma-Delta Basic conversion time 4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel Noise suppression for frequency >90dB at 50Hz (UCM<10V)	External temperature compensation	yes
Technical unit of temperature measurement°C, °F, KResolution in bit16Measurement principleSigma-DeltaBasic conversion time4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channelNoise suppression for frequency>90dB at 50Hz (UCM<10V)	Internal temperature compensation	yes
Resolution in bit16Measurement principleSigma-DeltaBasic conversion time4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channelNoise suppression for frequency>90dB at 50Hz (UCM<10V)	Temperature error internal compensation	1 K
Measurement principleSigma-DeltaBasic conversion time4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channelNoise suppression for frequency>90dB at 50Hz (UCM<10V)	Technical unit of temperature measurement	°C, °F, K
Basic conversion time4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channelNoise suppression for frequency>90dB at 50Hz (UCM<10V)	Resolution in bit	16
Noise suppression for frequency>90dB at 50Hz (UCM<10V)Status information, alarms, diagnosticsStatus displayyesInterruptsyes, parameterizableProcess alarmyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic interruptyesDiagnostic interruptyesModule error displaygreen LEDModule error displayred LED per channelIsolationsesBetween channels-Between channels of groups to-Between channels and power supply-Max, potential difference between niputs (Ucm)DC 75 V/AC 50 VMax, potential difference between inputs and Mana (Ucm)-Max, potential difference between niputs and Mana (Ucm)-Max, potential difference between Nintern and outputs-Max, potential difference between Nintern and outputs-Notal between the tote withDC 500 V	Measurement principle	Sigma-Delta
Status information, alarms, diagnosticsStatus displayyesInterruptsyes, parameterizableProcess alarmyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic interruptyesDiagnostic interruptpossibleModule stategreen LEDModule error displayred LEDChannel error displayred LEDBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Minterr (Uiso)-Max. potential difference between inputs and Mintern (Uiso)C 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between Mintern and outputs-Insulation tested withDC 500 V	Basic conversion time	4.2324.1 ms (50 Hz) 3.8270.5 ms (60 Hz) per channel
Status displayyesInterruptsyes, parameterizableProcess alarmyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic functionsyesDiagnostic information read-outpossibleModule stategreen LEDModule error displayred LEDChannel error displayred LED per channelIsolationsetween channelsBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso) <td>Noise suppression for frequency</td> <td>>90dB at 50Hz (UCM<10V)</td>	Noise suppression for frequency	>90dB at 50Hz (UCM<10V)
InterruptsyesProcess alarmyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic functionsyesDiagnostic functionsyesDiagnostic functionsyesDiagnostic information read-outpossibleModule stategreen LEDModule error displayred LEDChannel error displayred LEDBetween channels-Between channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mana (Ucm)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs an	Status information, alarms, diagnostics	
Process alarmyes, parameterizableDiagnostic interruptyes, parameterizableDiagnostic functionsyesDiagnostics information read-outpossibleModule stategreen LEDModule error displayred LEDChannel error displayred LED per channelIsolationBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)C 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between Mintern and outputs-Max. po	Status display	yes
Diagnostic interruptyes, parameterizableDiagnostic functionsyesDiagnostic functionspossibleModule stategreen LEDModule error displayred LEDChannel error displayred LED per channelIsolationBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)-Max. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)-Max. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)-Max. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between Mintern and outputs-Max. potential difference between Mintern An outputs-	Interrupts	yes
Diagnostic functionsyesDiagnostic functionspossibleModule stategreen LEDModule error displayred LEDChannel error displayred LED per channelIsolationIsolationBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mana (Ucm)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between Mintern and outputs-Insulation tested withDC 500 V	Process alarm	yes, parameterizable
Diagnostics information read-outpossibleModule stategreen LEDModule error displayred LEDChannel error displayred LED per channelIsolationIsolation-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 500 V	Diagnostic interrupt	yes, parameterizable
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Channel error displayred LED per channelIsolationBetween channels-Between channels of groups to-Between channels and backplane busyesBetween channels and power supply-Max. potential difference between circuits-Max. potential difference between inputs (Ucm)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)-Max. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between inputs and Mintern (Uiso)DC 75 V/ AC 50 VMax. potential difference between Mintern and outputs-Max. potential	Module state	green LED
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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	Max. potential difference between circuits	
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	Max. potential difference between inputs (Ucm)	DC 75 V/ AC 50 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	Max. potential difference between Mana and Mintern (Uiso)	
Max. potential difference between Mintern and outputs - Insulation tested with DC 500 V	Max. potential difference between inputs and Mana (Ucm)	
Insulation tested with DC 500 V	Max. potential difference between inputs and Mintern (Uiso)	DC 75 V/ AC 50 V
	Max. potential difference between Mintern and outputs	-
Technical data encoder supply	Insulation tested with	DC 500 V
	Technical data encoder supply	

YASKAWA

Number of outputs	-
Output voltage (typ)	-
Output current (rated value)	-
Short-circuit protection	-
Binding of potential	-
Datasizes	
Input bytes	4
Output bytes	0
Parameter bytes	22
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	58 g
Weight including accessories	58 g
Gross weight	
GIOSS WEIGHT	72 g
Environmental conditions	72 g
	72 g 0 °C to 60 °C
Environmental conditions	
Environmental conditions Operating temperature	0 °C to 60 °C
Environmental conditions Operating temperature Storage temperature	0 °C to 60 °C
Environmental conditions Operating temperature Storage temperature Certifications	0 °C to 60 °C -25 °C to 70 °C
Environmental conditions Operating temperature Storage temperature Certifications UL certification	0 °C to 60 °C -25 °C to 70 °C yes