

Data sheet SM 031 - Analog input (031-1BD70)

Technical data

TypeSM 031 - Analog inputModule ID0409 15C4General information-Note-Features4: All 2 B B Voltage -10 V+10 VCurrent consumption/power loss55 mACurrent consumption from backplane bus55 mAPower loss0.5 WTechnical data analog inputs4Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from bower section supplyDC 24 VCurrent consumption from power section supply (without load)15 mAVoltage inputsyesMin. input resistance (voltage ranges+10 V+10 VOperational limit of voltage ranges+10 V+10 VOperational limit of voltage ranges+0.2%Basic error limit voltage ranges+0.2%Basic error limit voltage ranges+0.2%Basic error limit voltage ranges-2Operational limit of current ranges-2Operational limit of voltage ranges with SFU-Basic error limit voltage ranges-2Operational limit of current ranges-2Basic error limit voltage ranges with SFU-Destruction limit voltage ranges with SFU-Destruction limit current ranges-Operational limit of current ranges-Operational limit of cur	Order no.	031-1BD70
General information     Note   -     Features   4X AI 12 Bit Votage 10 V+10 V     Current consumption/power loss   55 mA     Current consumption from backplane bus   55 mA     Power loss   0.5 W     Technical data analog inputs   4     Number of inputs   4     Cable length, shielded   200 m     Rated votage power section supply   DC 24 V     Current consumption from power section supply (without load)   15 mA     Notage inputs   yes     Min. input resistance (votage ranges)   100 KOhm     Input vottage ranges   100 KOhm     Input vottage ranges   100 KOhm     Input vottage ranges with SFU   -     Basic error limit votage ranges with SFU   -     Basic error limit votage ranges with SFU   -     Destruction limit of vortage ranges   -     Operational limit of vortage ranges   -     Operational limit of urrent ranges   -     Destruction limit voltage ranges   -     Operational limit of ourrent ranges   -     Destruction limit of urrent ranges with SFU   -     Deperational limit of c	Туре	SM 031 - Analog input
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12 Bit     Current consumption/power loss     Current consumption from backplane bus   55 mA     Power loss   0.5 W     Technical data analog inputs   4     Number of inputs   4     Cable length, shielded   200 m     Rated voltage power section supply   DC 24 V     Current consumption from power section supply (without load)   15 mA     Voltage inputs   yes     Min. input resistance (voltage ranges)   100 kOhm     Input voltage ranges   -100 V + 10 V     Operational limit of voltage ranges with SFU   -     Basic error limit voltage ranges with SFU   -     Current ranges   -     Max. input resistance (current range)   -     Max. input resistance (current ranges)   -     Input current ranges   -     Max. input resistance (current range)   -     Input current ranges   -     Operational limit of current ranges   -     Max. input resistance (current ranges)   -     Input current ranges   -     Operational limit of current ranges with SFU   -     Destruction limit current ranges with SFU	Note	-
Current consumption from backplane bus     55 mA       Power loss     0.5 W       Technical data analog inputs     4       Cable length, shielded     200 m       Rated voltage power section supply     DC 24 V       Current consumption from power section supply (without load)     15 mA       Voltage inputs     yes       Min. input resistance (voltage range)     100 Vcm+10 V       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     -       Destruction limit voltage ranges with SFU     -       Current inputs     -       Max. input resistance (current range)     -       Current limit voltage ranges with SFU     -       Operational limit of current ranges     -       Querter tranges     -       Current inputs     -       Current ranges     -       Operational limit of current ranges with SFU     -       Destruction limit current ranges with SFU     -       Destruction limit current ranges with SFU	Features	12 Bit
Power loss     0.5 W       Technical data analog inputs     4       Number of inputs     4       Cable length, shielded     200 m       Rated voltage power section supply     DC 24 V       Current consumption from power section supply (without load)     15 mA       Voltage inputs     yes       Min. input resistance (voltage range)     100 KOhm       Input voltage ranges     100 X +10 V       Operational limit of voltage ranges     +40.2%       Basic error limit voltage ranges with SFU     -       Basic error limit voltage ranges with SFU     -       Destruction limit voltage ranges with SFU     -       Max. input resistance (current range)     -       Input versistance (current range)     -       Input resistance (current ranges)     -       Basic error limit voltage ranges with SFU     -       Destruction limit current ranges     -       Operational limit of current ranges     -       Operational limit of current ranges     -       Destruction limit current ranges with SFU     -       Basic error limit current ranges with SFU     -       Destruction limit	Current consumption/power loss	
Technical data analog inputsNumber of inputs4Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)15 mAVoltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges-10 V +10 V 0 V +10 V 0 V +10 VOperational limit of voltage ranges with SFU-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges+/-0.2%Basic error limit voltage ranges-Max. input resistance (current range)-Input resistance (current range)-Operational limit of current ranges-Operational limit of current ranges-Radical error limit current ranges with SFU-Destruction limit current ranges with SFU-<	Current consumption from backplane bus	55 mA
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Voltage inputsyesMin. input resistance (voltage range)100 kOhmInput voltage ranges-10 V +10 V 0 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-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 current ranges-Destruction limit current ranges-Destruction limit current ranges with SFU-Basic error limit current ranges with SFU-Destruction limit current ranges-Operational limit of resistor ranges-Destruction limit current ranges with SFU-Destruction limit current inputs (voltage)-Resistance inputs-Operational 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-Basic error limit with SFU-Destruction limit resistance inputs </td <td>Rated voltage power section supply</td> <td>DC 24 V</td>	Rated voltage power section supply	DC 24 V
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Input voltage ranges-10 V +10 V 0 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-Current inputs-Max. Input resistance (current range)-Input current ranges-Operational limit of current ranges-Operational limit of current ranges-Operational limit of urrent ranges-Radical error limit current ranges with SFU-Destruction limit current ranges-Radical error limit current ranges-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Destruction limit tor feesistor ranges-Operational limit of resistor ranges-Destruction limit resistance inputs-	Voltage inputs	yes
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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-Radical error limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance ranges-Operational limit of resistor ranges-Destruction limit current inputs (voltage)-Destruction limit current inputs (electrical current)-Resistance ranges-Operational limit of resistor ranges-Operational limit of resistor ranges with SFU-Basic error limit current inputs (electrical current)-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-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer inputs-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resistance thermometer ranges-Resista	Operational limit of voltage ranges with SFU	-
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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 with SFU-Destruction limit resistance inputs-Resistance thermometer inputs-Resistance thermometer ranges-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-	Operational limit of current ranges with SFU	-
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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)	-
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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 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	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
Technical data encoder supply	
Number of outputs	
Output voltage (typ)	-
Output current (rated value)	-
Short-circuit protection	-
Binding of potential	-

## YASKAWA

Datasizes	
Input bytes	8
Output bytes	0
Parameter bytes	8
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	75 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	yes
UKCA certification	yes
ChinaRoHS certification	yes