

Data sheet SM 031 - Analog input (031-1BD40)

Technical data

TypeSM 031 - Analog inputModule ID0405 15C4General Information-Note-Features4: All StatesCurrent Consumption/power loss-Current consumption from backplane bus75 mAPower loss0.7 WTechnical data analog inputs4Number of inputs00 mRated voltage power section supply00 D 24 VCurrent consumption from bower section supply15 mAVoltage inputs0.2 Cal VCurrent consumption from power section supply0.2 La VCurrent consumption from power section supply10 DmIni. Input resistance (voltage ranges-Ini. Input resistance (voltage ranges-Sale error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Current rings10 OhmInput current ranges+10.3 M+40.3 M.Macin put resistance (current ranges+10.3 M+40.3 M.Operational limit of current ranges-Radical error limit current ranges+10.2 M+40.3 M.Operational limit of current ranges-Radical error limit current	Order no.	031-1BD40
General information     Note   -     Features   4: A I true to consumption from backplane bus   20 mA     Current consumption from backplane bus   75 mA     Power loss   0.7 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     Notage inputs   -     Min. input resistance (voltage ranges)   -     Input voltage ranges   -     Operational limit of voltage ranges with SFU   -     Basic error limit voltage ranges with SFU   -     Destruction limit voltage ranges with SFU   -     Depretational limit of current ranges   +/0.2%	Туре	SM 031 - Analog input
Note-Features2 A A S A Current 0(4)20 mACurrent consumption/power loss75 mACurrent consumption from backplane bus75 mAPowor loss0.7 WTechnical data analog inputs4Cable length, shielded000 mCable length, shielded000 mCable length, shielded00 mCable length, shielded0.7 WCurrent consumption from power section supply (without load)15 mAVoltage inputs-Voltage inputs-Voltage ranges-Operational limit of voltage ranges-Operational limit of voltage ranges-Descrution limit voltage ranges-Saice error limit voltage ranges-Current torsuge-Descrution limit voltage ranges-Max. input resistance (current range)-Max. input resistance (current range)-Input contage ranges-Operational limit of voltage ranges-Max. input resistance (current range)-Max. input resistance (current range)-Input corrent ranges+Operational limit of current ranges+Operational limit of resistor ranges-Resistance inputs-Resistance inputs	Module ID	0405 15C4
Features   4: A Il 22 Bit 20 Htt.     Current consumption/power loss   75 mA     Power loss   0.7 W <b>Technical data analog inputs</b> 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     Noitage inputs   -     Min. input resistance (voltage range)   -     Inin. input resistance (voltage ranges)   -     Operational limit of voltage ranges   -     Destruction limit voltage ranges with SFU   -     Basic error limit voltage ranges with SFU   -     Destruction limit voltage ranges with SFU   -     Basic error limit voltage ranges   -     Current ranges   -     Querational limit of voltage ranges   -     Destruction limit voltage ranges   -     Destruction limit voltage ranges with SFU   -     Input current ranges   +0.2%     Max. input resistance (current ranges)   10 Ohm     Input current ranges   +0.2%     Operational limit of current ranges with SFU   - </td <td>General information</td> <td></td>	General information	
12 bit Current consumption/power loss12 bit Current consumption from backplane bus75 mAPower loss0.7 WTechnical data analog inputs4Number of inputs4Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)15 mAVoltage inputs-Min. input resistance (voltage range)-Input voltage ranges-Operational limit of voltage ranges-Operational limit of voltage ranges-Basic error limit voltage ranges-Basic error limit voltage ranges-Current inputsyesQuerent initi voltage ranges-Operational limit of voltage ranges-Destruction limit voltage ranges-Basic error limit voltage ranges-Querent initi voltage ranges-Querent initi voltage ranges-Querent initi voltage ranges-Querent limit voltage-Querent limit voltage-Querent ranges+ <td>Note</td> <td>-</td>	Note	-
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Power loss0.7 WTechnical data analog inputsNumber of inputs4Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (without load)15 mAVoltage inputs-Min. input resistance (voltage ranges)-Operational limit of voltage ranges-Operational limit of voltage ranges-Basic error limit voltage ranges-Operational limit of voltage ranges-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-Current inputsyesMax. input resistance (current range)110 OhmInput current ranges+/-0.3%+/-0.5%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-Operational limit of resistor ranges- </td <td>Current consumption/power loss</td> <td></td>	Current consumption/power loss	
Technical data analog inputsNumber of inputs4Cable length, shielded200 mRated voltage power section supplyDC 24 VCurrent consumption from power section supply (withou toad)15 mAVoltage inputs-Min. input resistance (voltage ranges)-Input voltage ranges-Operational limit of voltage ranges-Operational limit of voltage ranges-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Destruction limit voltage ranges-Current inputsyesMax. input resistance (current range)110 OhmInput current ranges-Operational limit of current ranges+0.3% +/0.5%Operational limit of current ranges-Max. input resistance (current ranges-Max. input resistance (current ranges)110 OhmInput current ranges+0.3% +/-0.3%Radice error limit current ranges with SFU-Destruction limit current ranges-Resistance inputs-Resistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges <td< td=""><td>Current consumption from backplane bus</td><td>75 mA</td></td<>	Current consumption from backplane bus	75 mA
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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     -       Min. input resistance (voltage range)     -       Input voltage ranges     -       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     -       Basic error limit voltage ranges with SFU     -       Destruction limit voltage ranges with SFU     -       Destruction limit voltage ranges with SFU     -       Current inputs     yes       Max. input resistance (current range)     110 Ohm       Input current ranges     -       Operational limit of 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 with SFU     -       Resistance inputs     -	Technical data analog inputs	
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Destruction limit voltage-Current inputsyesMax. input resistance (current range)110 OhmInput current ranges0 mA +20 mAOperational limit of current ranges+/-0.3% +/-0.5%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)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Operational limit of resistor ranges-Destruction limit uth 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-Basic error limit tersistance	Basic error limit voltage ranges	-
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Max. input resistance (current range)110 OhmInput current ranges0 mA +20 mAOperational limit of current ranges+/-0.3% +/-0.5%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)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance inputs-Operational limit of resistor ranges-Operational limit of resistor ranges-Basic error limit with SFU-Basic error li	Destruction limit voltage	-
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Operational limit of current ranges with SFU-Basic error limit current ranges+/-0.2% +/-0.3%Radical error limit current ranges with SFU-Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance 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-	Input current ranges	
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Destruction limit current inputs (voltage)max. 24VDestruction limit current inputs (electrical current)max. 40mAResistance 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-<	Basic error limit current ranges	+/-0.2% +/-0.3%
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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 inputs-Resistance thermometer ranges-	Destruction limit current inputs (electrical current)	max. 40mA
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	
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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