

Data sheet

SM M32 - Analog output (M32-1BD70)

Technical data

Order no.	M32-1BD70
Туре	SM M32 - Analog output
Module ID	050A 25E0
General information	
Note	
Features	4x AO 12 Bit Voltage 010 V +-10 V
Current consumption/power loss	
Current consumption from backplane bus	60 mA
Current consumption from power section supply (without load)	25 mA
Power loss	0.9 W
Technical data analog outputs	
Number of outputs	4
Cable length, shielded	200 mm
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	yes
Current consumption from rated load voltage	-
Voltage output short-circuit protection	yes
Voltage outputs	yes
Min. load resistance (voltage range)	5 kOhm
Max. capacitive load (current range)	1 μF
Max. inductive load (current range)	10 mA
Output voltage ranges	-10 V +10 V 0 V +10 V
Operational limit of voltage ranges	+/-0.3%
Basic error limit voltage ranges	+/-0.2%
Destruction limit against external applied voltage	max. 24V
Current outputs	-
Max. in load resistance (current range)	-
Max. inductive load (current range)	-
Typ. open circuit voltage current output	-
Output current ranges	-
Operational limit of current ranges	-
Basic error limit current ranges	-
Destruction limit against external applied voltage	-
Settling time for ohmic load	2 ms
Settling time for capacitive load	4 ms
Settling time for inductive load	-
Resolution in bit	12
Conversion time	2 ms all channels
Substitute value can be applied	no
Output data size	8 Byte
Status information, alarms, diagnostics	

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Status display	yes
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	green LED
Group error display	Bicolour green/red LED
Channel error display	red LED per channel
Isolation	
Between channels	-
Between channels of groups to	-
Between channels and backplane bus	yes
Between channels and power supply	yes
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	-
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 50 V
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	-
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V
Datasizes	
Input bytes	0
Output bytes	8
Parameter bytes	10
Diagnostic bytes	20
Housing	
Material	PPE / PPE GF10
Mounting	Profile rail 35 mm
Mechanical data	
Mechanical data Dimensions (WxHxD)	26 mm x 88 mm x 71 mm
Dimensions (WxHxD)	26 mm x 88 mm x 71 mm
Dimensions (WxHxD) Net weight	26 mm x 88 mm x 71 mm 94 g
Dimensions (WxHxD) Net weight Weight including accessories	26 mm x 88 mm x 71 mm 94 g 94 g
Dimensions (WxHxD) Net weight Weight including accessories Gross weight	26 mm x 88 mm x 71 mm 94 g 94 g
Dimensions (WxHxD) Net weight Weight including accessories Gross weight Environmental conditions	26 mm x 88 mm x 71 mm 94 g 94 g 107 g
Dimensions (WxHxD) Net weight Weight including accessories Gross weight Environmental conditions Operating temperature	26 mm x 88 mm x 71 mm 94 g 94 g 107 g 0 °C to 60 °C
Dimensions (WxHxD) Net weight Weight including accessories Gross weight Environmental conditions Operating temperature Storage temperature	26 mm x 88 mm x 71 mm 94 g 94 g 107 g 0 °C to 60 °C
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Dimensions (WxHxD) Net weight Weight including accessories Gross weight Environmental conditions Operating temperature Storage temperature Certifications UL certification KC certification	26 mm x 88 mm x 71 mm 94 g 94 g 107 g 0 °C to 60 °C -25 °C to 70 °C yes yes