

Data sheet SM 232, ECO (232-1BD40)

Technical data

Order no.	232-1BD40
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Type	SM 232, ECO
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General information

Note	-
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Features	4x AO 12 Bit Current 0(4)...20 mA Parameterizable
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Current consumption/power loss

Current consumption from backplane bus	60 mA
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Current consumption from power section supply (without load)	-
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Power loss	1.5 W
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Technical data analog outputs

Number of outputs	4
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Cable length, shielded	200 m
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Rated load voltage	DC 24 V
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Reverse polarity protection of rated load voltage	yes
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Current consumption from rated load voltage	50 mA
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Voltage output short-circuit protection	-
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Voltage outputs	-
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Min. load resistance (voltage range)	-
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Max. capacitive load (current range)	-
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Max. inductive load (current range)	-
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Output voltage ranges	-
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Operational limit of voltage ranges	-
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Basic error limit voltage ranges	-
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Destruction limit against external applied voltage	-
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Current outputs	yes
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Max. in load resistance (current range)	350 Ohm
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Max. inductive load (current range)	10 mH
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Typ. open circuit voltage current output	13 V
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Output current ranges	0 mA ... +20 mA +4 mA ... +20 mA
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Operational limit of current ranges	+/-0.4%
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Basic error limit current ranges	+/-0.2%
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Destruction limit against external applied voltage	max. 15V
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Settling time for ohmic load	0.03 ms
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Settling time for capacitive load	-
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Settling time for inductive load	1.5 ms
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Resolution in bit	12
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Conversion time	0.7 ms / all channels
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Substitute value can be applied	no
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Output data size	8 Byte
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Status information, alarms, diagnostics

Status display	none
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	green LED
Group error display	none
Channel error display	none

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	8
Diagnostic bytes	0

Housing

Material	PPE / PA 6.6
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm
Net weight	80 g
Weight including accessories	-
Gross weight	-

Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

Certifications

UL certification	yes
KC certification	-