## Data sheet

SM 032 - Analog output (032-1CB40)

Technical data

| Order no. | 032-1CB40 |
| :---: | :---: |
| Type | SM 032 - Analog output |
| Module ID | 050B 25D8 |
| General information |  |
| Note | - |
| Features | $\begin{aligned} & 2 \times \mathrm{AO} \\ & 16 \text { Bit } \\ & \text { Current } 0(4) \ldots 20 \mathrm{~mA} \end{aligned}$ |
| Current consumption/power loss |  |
| Current consumption from backplane bus | 60 mA |
| Current consumption from load voltage L+ (without load) | 15 mA |
| Power loss | 0.7 W |
| Technical data analog outputs |  |
| Number of outputs | 2 |
| Cable length, shielded | 200 m |
| 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 | - |
| Voltage outputs | - |
| Min. load resistance (voltage range) | - |
| Max. capacitive load (current range) | - |
| Max. inductive load (current range) | - |
| Output voltage ranges | - |
| Operational limit of voltage ranges | - |
| Basic error limit voltage ranges | - |
| Destruction limit against external applied voltage | - |
| Current outputs | yes |
| Max. in load resistance (current range) | 350 Ohm |
| Max. inductive load (current range) | 10 mH |
| Typ. open circuit voltage current output | 12 V |
| Output current ranges | $\begin{aligned} & 0 \mathrm{~mA} \ldots+20 \mathrm{~mA} \\ & +4 \mathrm{~mA} \ldots+20 \mathrm{~mA} \end{aligned}$ |
| Operational limit of current ranges | +/-0.2\% |
| Basic error limit current ranges | +/-0.1\% |
| Destruction limit against external applied voltage | max. 12V (30V for 1s) |
| Settling time for ohmic load | 0.25 ms |
| Settling time for capacitive load | - |
| Settling time for inductive load | 1.5 ms |
| Resolution in bit | 16 |
| Conversion time | $400 \mu$ all channels |
| Substitute value can be applied | no |
| Output data size | 4 Byte |
| Status information, alarms, diagnostics |  |


| 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 | 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 $75 \mathrm{~V} / \mathrm{AC} 50 \mathrm{~V}$ |
| 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 | 4 |
| Parameter bytes | 8 |
| Diagnostic bytes | 20 |
| Housing |  |
| Material | PPE / PPE GF10 |
| Mounting | Profile rail 35 mm |
| Mechanical data |  |
| Dimensions (WxHxD) | $12.9 \mathrm{~mm} \times 109 \mathrm{~mm} \times 76.5 \mathrm{~mm}$ |
| Net weight | 61 g |
| Weight including accessories | 61 g |
| Gross weight | 75 g |
| Environmental conditions |  |
| Operating temperature | $0^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ |
| Storage temperature | $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ |
| Certifications |  |
| UL certification | yes |
| KC certification | yes |

