

## Data sheet

### SM 032 (032-1BD40)

#### Technical data

|   |  |
|---|--|
| <b>Order no.</b>  | <b>032-1BD40</b>                       |
| Type  | SM 032                                 |
| Module ID   | 0504 25E0                              |
| <b>General information</b>                              |  |
| Note  | -                                      |
| Features  | 4 outputs 12Bit<br>Current 0(4)...20mA |
| <b>Current consumption/power loss</b>                   |  |
| Current consumption from backplane bus                  | 90 mA                                  |
| Power loss  | 0.8 W                                  |
| <b>Technical data analog outputs</b>                    |  |
| Number of outputs                                       | 4                                      |
| Cable length, shielded                                  | 200 m                                  |
| Rated load voltage                                      | DC 24 V                                |
| Reverse polarity protection of rated load voltage       | yes                                    |
| Current consumption from load voltage L+ (without load) | -                                      |
| 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                                   | 0 mA ... +20 mA<br>+4 mA ... +20 mA    |
| Operational limit of current ranges                     | +/-0.4% ... +/-0.5%                    |
| Basic error limit current ranges                        | +/-0.2% ... +/-0.3%                    |
| 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                                       | 12                                     |
| Conversion time   | 2 ms all channels                      |
| Substitute value can be applied                         | no                                     |
| Output data size  | 8 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 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

|                    |                            |
|--------------------|----------------------------|
| Dimensions (WxHxD) | 12.9 mm x 109 mm x 76.5 mm |
| Weight             | 60 g                       |

### Environmental conditions

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

### Certifications

|                  |     |
|------------------|-----|
| UL certification | yes |
| KC certification | yes |