

## Data sheet

### SM 032 (032-1CB30)

#### Technical data

|                                                         |                                     |
|---------------------------------------------------------|-------------------------------------|
| <b>Order no.</b>                                        | <b>032-1CB30</b>                    |
| Type                                                    | SM 032                              |
| Module ID                                               | 0507 2558                           |
| <b>General information</b>                              |                                     |
| Note                                                    | -                                   |
| Features                                                | 2 outputs 16Bit<br>Voltage 0...10 V |
| <b>Current consumption/power loss</b>                   |                                     |
| Current consumption from backplane bus                  | 60 mA                               |
| Power loss                                              | 0.8 W                               |
| <b>Technical data analog outputs</b>                    |                                     |
| Number of outputs                                       | 2                                   |
| Cable length, shielded                                  | 200 m                               |
| Rated load voltage                                      | DC 24 V                             |
| Reverse polarity protection of rated load voltage       | ✓                                   |
| Current consumption from load voltage L+ (without load) | -                                   |
| Voltage output short-circuit protection                 | ✓                                   |
| Voltage outputs                                         | ✓                                   |
| Min. load resistance (voltage range)                    | 5 kOhm                              |
| Max. capacitive load (current range)                    | 1 µF                                |
| Max. inductive load (current range)                     | 10 mA                               |
| Output voltage ranges                                   | 0 V ... +10 V                       |
| Operational limit of voltage ranges                     | +/-0.2%                             |
| Basic error limit voltage ranges                        | +/-0.1%                             |
| Destruction limit against external applied voltage      | -                                   |
| Current outputs                                         | -                                   |
| Max. in load resistance (current range)                 | -                                   |
| Max. inductive load (current range)                     | -                                   |
| Max. inductive load (current range)                     | -                                   |
| Output current ranges                                   | -                                   |
| Operational limit of current ranges                     | -                                   |
| Basic error limit current ranges                        | -                                   |
| Destruction limit against external applied voltage      | -                                   |
| Settling time for ohmic load                            | 150 µs                              |
| Settling time for capacitive load                       | 1 ms                                |
| Settling time for inductive load                        | -                                   |
| Resolution in bit                                       | 16                                  |
| Conversion time                                         | 200 µs 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                          | ✓                |
| Between channels and power supply                           | ✓                |
| Max. potential difference between circuits                  | -                |
| Max. potential difference between inputs (Ucm)              | -                |
| Max. potential difference between Mana and Mintern (Uiso)   | DC 75 V/ AC 60 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 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

|                     |     |
|---------------------|-----|
| UL508 certification | yes |
|---------------------|-----|