

Data sheet SM 332 (332-5HB01)

Technical data

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|---|---|
| Order no. | 332-5HB01 |
| Type | SM 332 |
| General information | |
| Note | - |
| Features | 2x AO 12 Bit Voltage +/- 10 V, 1...5 V, 0...10 V Current +/- 20 mA, 0/4...20 mA Parameterizable For 20 pole front connectors |
| SPEED-Bus | - |
| Current consumption/power loss | |
| Current consumption from backplane bus | 100 mA |
| Current consumption from load voltage L+ (without load) | - |
| Power loss | 2.5 W |
| Technical data analog outputs | |
| Number of outputs | 2 |
| Cable length, shielded | - |
| Rated load voltage | DC 24 V |
| Reverse polarity protection of rated load voltage | - |
| Current consumption from rated load voltage | 70 mA |
| Voltage output short-circuit protection | yes |
| Voltage outputs | yes |
| Min. load resistance (voltage range) | 1 kOhm |
| Max. capacitive load (current range) | 1 µF |
| Max. inductive load (current range) | 30 mA |
| Output voltage ranges | -10 V ... +10 V 0 V ... +10 V +1 V ... +5 V |
| Operational limit of voltage ranges | +/-0.2% ... +/-0.8% |
| Basic error limit voltage ranges | +/-0.1% ... +/-0.5% |
| Destruction limit against external applied voltage | max. 16V (30V / 10s) |
| Current outputs | yes |
| Max. in load resistance (current range) | 500 Ohm |
| Max. inductive load (current range) | 10 mH |
| Typ. open circuit voltage current output | - |
| Output current ranges | -20 mA ... +20 mA 0 mA ... +20 mA +4 mA ... +20 mA |
| Operational limit of current ranges | +/-0.3% ... +/-0.8% |
| Basic error limit current ranges | +/-0.2% ... +/-0.5% |
| Destruction limit against external applied voltage | max. 16V (30V / 10s) |
| Settling time for ohmic load | 0.2 ms |
| Settling time for capacitive load | 1 ms |
| Settling time for inductive load | 1 ms |

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| Resolution in bit | 13 |
| Conversion time | 0.5 ms all channels |
| Substitute value can be applied | yes |
| Output data size | 4 Byte |

Status information, alarms, diagnostics

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|----------------------------------|-----------------------|
| Status display | green LED per channel |
| Interrupts | yes |
| Process alarm | no |
| Diagnostic interrupt | yes, parameterizable |
| Diagnostic functions | yes |
| Diagnostics information read-out | possible |
| Supply voltage display | none |
| Group error display | red SF LED |
| Channel error display | red LED per channel |

Isolation

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| 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

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| Input bytes | 0 |
| Output bytes | 4 |
| Parameter bytes | 21 |
| Diagnostic bytes | 16 |

Housing

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| Material | PPE |
| Mounting | Rail System 300 |

Mechanical data

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| Dimensions (WxHxD) | 40 mm x 125 mm x 120 mm |
| Net weight | 230 g |
| Weight including accessories | - |
| Gross weight | - |

Environmental conditions

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

Certifications

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