SIEMENS

## Data sheet 6ES7332-5RD00-0AB0



********** spare part ********* SIMATIC S7, analog output SM 332, isolated, 4 AO; 0/4 to 20 mA, 20-pole, for signals from the hazardous area, diagnostics-capable, PTB tested

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● Reverse polarity protection | Yes |
| **Input current** | |
| from load voltage L+ (without load), max. | 200 mA |
| from backplane bus 5 V DC, max. | 80 mA |
| **Power loss** | |
| Power loss, typ. | 4 W |
| **Analog outputs** | |
| Number of analog outputs | 4 |
| Voltage output, short-circuit protection | Yes |
| Voltage output, short-circuit current, max. | 70 mA |
| Current output, no-load voltage, max. | 14 V |
| Output ranges, current | |
| ● 0 to 20 mA | Yes |
| ● 4 mA to 20 mA | Yes |
| Connection of actuators | |
| ● for current output two-wire connection | Yes |
| Load impedance (in rated range of output) | |
| ● with current outputs, max. | 500 Ω |
| Cable length | |
| ● shielded, max. | 200 m |
| **Analog value generation for the outputs** | |
| Integration and conversion time/resolution per channel | |
| ● Resolution with overrange (bit including sign), max. | 15 bit |
| **Errors/accuracies** | |
| Operational error limit in overall temperature range | |
| ● Current, relative to output range, (+/-) | 0.55 % |
| Basic error limit (operational limit at 25 °C) | |
| ● Current, relative to output range, (+/-) | 0.2 % |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes |
| Diagnoses | |
| ● Overrange | Yes |
| ● Wire-break in actuator cable | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Channel fault indicator F (red) | Yes |


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| | |
|---|---|
| **Ex(i) characteristics** | |
| Module for Ex(i) protection | Yes |
| maximum values for connecting terminals for gas group IIC | |
| ● Uo (no-load voltage), max. | 14 V |
| ● Io (short-circuit current), max. | 70 mA |
| ● Po (power output), max. | 440 mW |
| ● Co (permissible external capacity), max. | 850 nF |
| ● Lo (permissible external inductivity), max. | 6.6 mH |
| **Potential separation** | |
| Potential separation analog outputs | |
| ● between the channels | Yes |
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L+ | Yes |
| **Standards, approvals, certificates** | |
| Use in hazardous areas | |
| ● ATEX marking | [EEx ib] IIC |
| ● FM marking | Class I, Division 2, Group A, B, C, D T4 |
| ● Test number PTB | Ex-96.D.2026X |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● max. | 60 °C |
| **Connection method** | |
| required front connector | 20-pin |
| **Dimensions** | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| **Weights** | |
| Weight, approx. | 280 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-01 |
| eClass | 14 | 27-24-22-01 |
| eClass | 12 | 27-24-22-01 |
| eClass | 9.1 | 27-24-22-01 |
| eClass | 9 | 27-24-22-01 |
| eClass | 8 | 27-24-22-01 |
| eClass | 7.1 | 27-24-22-01 |
| eClass | 6 | 27-24-22-01 |
| ETIM | 10 | EC001420 |
| ETIM | 9 | EC001420 |
| ETIM | 8 | EC001420 |
| ETIM | 7 | EC001420 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**







Miscellaneous




Metrological Approval




| General Product Approval | For use in hazardous locations |
|---|---|


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China RoHS | Manufacturer Declaration | Miscellaneous | IECEx | ATEX | FM

| For use in hazardous locations | | | | Maritime application | |
|---|---|---|---|---|---|
| CCC | CCC-Ex | ATEX | UL | DNV | NK / Nippon Kaiji Kyokai |

| Maritime application |
|---|
| PRS |

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