

TM5SAO4L

analog output module - 4O - +/-10 V/0..20 mA - 12 bits



Main

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| Range of product | Modicon TM5 |
| Product or component type | Analog output module |
| Analogue output number | 4 |
| Analogue output resolution | 12 bits 0...20 mA 12 bits + sign +/- 10 V |

Complementary

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| Range compatibility | Modicon LMC058 Modicon M258 |
| Product compatibility | Motion controller Logic controller |
| Analogue output type | Current 0...20 mA Voltage +/- 10 V |
| Measurement resolution | 4.882 mV, +/- 10 V 9.766 µA, 0...20 mA |
| Colour | White |
| Response time | <= 1 ms |
| Output impedance | >= 1 Ohm |
| Load impedance ohmic | 200...500 Ohm (current) |
| Sampling duration | 300 µs |
| Measurement error | < 0.08 % of full scale, +/- 10 V, +/- 10 V at 25 °C < 0.08 % of full scale, 0...20 mA, 0...20 mA at 25 °C |
| Temperature coefficient | 0.015 %FS/°C, analogue output type: current 0.015 %FS/°C, analogue output type: voltage |
| Non-linearity | < 0.005 %FS, analogue output type: current < 0.005 %FS, analogue output type: voltage |
| Type of cable | Shielded cable |
| Isolation | No insulation between channels 500 Vrms AC insulation between channel and bus |
| Supply | Internal |
| [Us] rated supply voltage | 24 V DC -15...20 % |
| Local signalling | 1 LED green for power supply 1 LED red for power supply 4 LEDs yellow for output status |
| Current consumption | 2 mA 5 V DC bus 63 mA 24 V DC input/output |
| Power dissipation in W | <= 1.51 W |
| Marking | CE |
| Product weight | 0.025 kg |

Environment

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| Standards | CSA C22.2 No 142 CSA C22.2 No 142 IEC 61131-2 IEC 61131-2 UL 508 |
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UL 508
CSA C22.2 No 213
CSA C22.2 No 213

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| Product certifications | CSA C-Tick CULus GOST-R |
| Ambient air temperature for operation | 0...50 °C (vertical installation) 0...55 °C without derating factor (horizontal installation) 0...60 °C with derating factor (horizontal installation) |
| Ambient air temperature for storage | -25...70 °C |
| Relative humidity | 5...95 % without condensation |
| IP degree of protection | IP20 conforming to IEC 61131-2 |
| Pollution degree | 2 conforming to IEC 60664 |
| Operating altitude | 0...2000 m |
| Storage altitude | 0...3000 m |
| Vibration resistance | 1 gn (f= 8.4...150 Hz) DIN rail 3.5 mm (f= 5...8.4 Hz) DIN rail |
| Shock resistance | 15 gn for 11 ms |
| Resistance to electrostatic discharge | 4 kV on contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2 |
| Resistance to electromagnetic fields | 1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 |
| Resistance to fast transients | 1 kV I/O conforming to EN/IEC 61000-4-4 1 kV shielded cable conforming to EN/IEC 61000-4-4 2 kV power lines conforming to EN/IEC 61000-4-4 |
| Surge withstand | 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5 |
| Electromagnetic compatibility | EN/IEC 61000-4-6 |
| Disturbance radiated/conducted | CISPR 11 |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 1039 - Schneider Electric declaration of conformity |
| Product environmental profile | Available |
| Product end of life instructions | Available |