



NEXTuino PEAK PLUS

Industrial Programmable Logic Controller

- 12 Digital Inputs + 10 Common A/D
- 12 Digital Outputs · 5 power-rated Relay Outputs
- Ethernet · USB-B · RS485 · Pin header
- DIN-rail 72x90x62 mm · 270 g

| PARAMETER | COND. | VALUE / SPECIFICATION |
|---|-------|--|
| GENERAL | | |
| Standard | | EN61010-1 / EN61010-2-201 / EN61131-2 |
| Dimensions (W x H x D) | | 72x90x62mm / Weight / 270g / Mounting |
| Top hat rail EN50022, 35mm | | |
| ENVIRONMENTAL CONDITIONS | | |
| Operating ambient temperature | | 0°C – 55°C |
| Relative humidity – non-condensing | | 80 % for temp. up to 31 °C, |
| decreasing linearly to 50 % | | |
| relative humidity at 55 °C | | Pollution Degree / PD2 / Altitude |
| up to 2000m AMSL | | |
| Vibration (5 f 9 Hz) | | 1,75 mm amplitude sinus / 3,5 mm amplitude random |
| Vibration (9 f 150 Hz) | | 0,5 g acceleration sinus / 1,0 g acceleration random |
| Transport and Storage | | -20°C – +70°C / 10 to 90% no condensation |
| Altitude 3000m AMSL | | Shock response / 15g, 11ms half sinus all 3 axes |
| I/O | | |
| Supply voltage | | 12V or 24V |
| USB (Power for programming only) | | USB-B, 2.0 / Ethernet |
| RJ45, 10/100Mbps | | |
| RS485 (no termination inside) | | 250kb |
| Inputs, no galvanic insulation | | 12 |
| Common analog/digital | | 10 |
| Fixed digital, ext. Interrupt usable | | 2 |
| Digital Outputs, no galvanic insulation | | 12 |
| Relay Outputs, galvanic insulation | | 5 |
| PIN Header, no galvanic insulation | | Logic level I/Os / 42, partially parallel to terminal I/Os |
| Analog 0-5V Inputs | | 14 / Communication |
| SPI, 2xUART, I2C, Reset | | Internal Power / +3,3V, +5V, ARef, GND |
| | | 2,5mm ² (24-12AWG) / Strip length / 6-7mm |
| | | 0,5Nm |
| | | 1,5mm ² (30-16AWG) / Strip length / 5-6mm |

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|---------------------------------------|-----------------|--|
| TERMINAL CAPACITIES (cont.) | | |
| Max. tightening torque | | 0,2Nm |
| Pin header connector | | 2x 26 Pin, Dual row, 2.54 pitch |
| PROTECTION | | |
| ESD HBM Class 0 | | |
| Contact discharge: ±4kV | | Air discharge: ±8kV |
| Supply input over current protection | | Internal Fuse 20A / Relay Output / External Fuse required / Digital Output |
| Overload, short circuit, ESD | | Signal Input |
| Overvoltage, ESD | | |
| Pin header connector | | ESD |
| Current +5V, +3,3V | | |
| total 200mA, resettable fuse | | |
| ELECTRICAL CHARACTERISTICS | | |
| Supply voltage | 12V range | 10,2V – 15,0V |
| | 24V range | 20,4V – 30,0V |
| Signal input low level | 12V range | 0V – 3,6V |
| | 24V range | 0V – 7,2V |
| Signal input high level | 12V range | 9V – 13,2V |
| | 24V range | 18V – 26,4V |
| Analog signal input | 12V range | 0 – 13,2V |
| | 24V range | 0 – 26,4V |
| Signal input current | max. current | < 3mA |
| Logic "0" level | @ pin header | 0V – 1,5V |
| Logic "1" level | @ pin header | 3V – 5,5V |
| Signal output low level | 12V range | 0V – 2,4V |
| | 24V range | 0V – 4,8V |
| Signal output high level | Vin – 10% | Signal output – PWM functionality |
| | Duty cycle | 5% - 95% |
| Relay output, Contact rating | Resistive | 16A 250V AC / |
| | Load | 30V DC |
| Common Relay terminal | max. current | 16A |
| Galvanic insulation | coil to contact | 3000VAC 1min |
| Relay ON in case of PWM functionality | Duty cycle | > 30% |

PHYSICAL DIMENSIONS

