



MAXIFLEX 48Vdc Logic & Field Power Supply Module

Model M1104C – 48Vdc Logic Power Module with Auxiliary 24Vdc Field Supply.

DATASHEET



FEATURES

- Operate MAXIFLEX systems from 48Vdc
- Fits in PSU Slot of MAXIFLEX Base
- 24Vdc 1Amp Field supply output for powering I/O included
- Wide input operating range.
- Power Supply Monitoring for reliable system operation
- CE certified for international application.
- Logic Supply Healthy indication

The M1104C Power Supply Module is powered from an external +48Vdc (nominal) supply, and provides the primary logic power for a MAXIFLEX I/O Base, as well as a 24Vdc 1Amp isolated supply for powering I/O.

This power supply module operates over a wide input voltage range of 43-55Vdc, allowing Maxiflex systems to

be operated on 48Volt battery systems.

All connections to the module are made via screw terminals located behind the door on the front of the module. These terminals are removable for easy module replacement.

SPECIFICATIONS

DC Input

| | |
|--------------|-----------------------|
| Power Source | 43-55Vdc 50Watts max. |
| Protection | 2A Fuse (Slow Blow) |
| Efficiency | >80% at Full Load |

Logic Supply Outputs

| | |
|-------------------|---------------------------|
| +5V Logic Supply | 5.1V $\pm 2\%$ 3A maximum |
| +12V Logic Supply | 12V $\pm 15\%$ 1A maximum |

Field Supply Output

| | |
|---------------------|-----------------------------|
| +24Vdc Field Supply | 24Vdc $\pm 15\%$ 1 Amp max. |
|---------------------|-----------------------------|

Isolation

| | |
|-----------------------|-------------------------|
| Input to Logic | 2.5kVrms for 60 seconds |
| Input to Field Supply | 2.5kVrms for 60 seconds |
| Input to Earth | 0.5kVrms for 60 seconds |

Front Panel Indication

| | |
|----------------|---------------------------------|
| POWER (Green) | On = Logic Supplies Healthy |
| O/LOAD (Red) | On = Field Supply is overloaded |
| SHUTDOWN (Red) | On = Power Supply has shut down |

Input/Output Terminations

| | |
|---------------|---|
| Terminal Type | Screw clamp Plug-in Terminal Blocks |
| Wire Size | 2.5mm ² maximum For manageable wiring to the module, 1.0 mm ² is recommended |

Electromagnetic Compatibility

Impulse Withstand Test

| | |
|---|-----------------------------|
| Between positive and negative input terminals | 4kV; 1.2us/50us test pulses |
|---|-----------------------------|

| | |
|---|-----------------------------|
| Between either input terminal and earth | 1kV; 1.2us/50us test pulses |
|---|-----------------------------|

Impulse withstand Test

| | |
|---------------|--|
| Across Inputs | 4kV noise bursts between inputs in accordance with IEC801-4, class IV. |
|---------------|--|

Environmental and Safety

| | |
|--------------------------|--|
| Operating Temperature | -25°C to +60°C (-13°F to +140°F) |
| Storage Temperature | -40°C to +70°C (-40°F to +158°F) |
| Humidity | 95% max. at 40°C (104°F) non-condensing. |
| Environmental Protection | Electronics conformally coated |

Compliance to Standards

| | |
|-----------|---|
| Safety | Conforms to IEC950; EN60950 |
| Emissions | EN55011 and EN50081-2:1994 Group 1, Class A |

Mass

| | |
|---------------------|-------------|
| Excluding Packaging | 520g (18oz) |
| Including Packaging | 610g (22oz) |

Ordering Information

| | |
|----------------------|------------|
| Model Name | Order Code |
| Maxiflex 48DC LF PSU | M1104C |

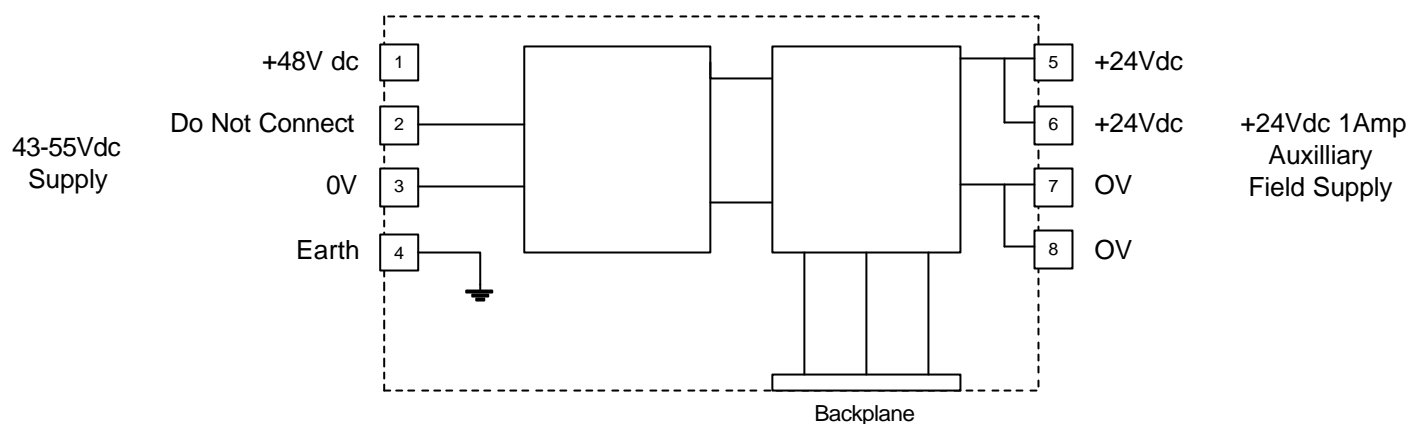




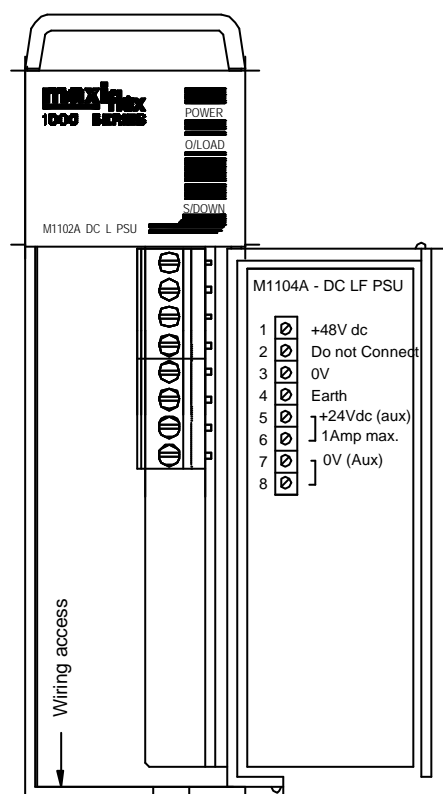
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ELECTRICAL CONNECTIONS



MECHANICAL ARRANGEMENT



Note: The LED indicators can only be seen when illuminated.