

L1090101 Obelix Power Supply I/O Next Generation Module (Digital Inputs 110VAC)

The L109 Obelix Mining PLC Power Supplies combines a mining-duty industrial 24-volt D.C. power supply with a mixture of useful input and output resources.

The power supply takes a 110-volt A.C. input and provides stable 24-volt D.C. output (up to 200 watts) for supplying other control system modules.

An industry-standard CAN (Controller Area Network) connection is used to allow a host PLC to control relay outputs, read inputs and monitor module status.

- Uniquely Keyed Type A connectors to prevent incorrect machine installation
- 24-volt D.C. 200/Watts power supply for supplying other Obelix modules
- 2 x A-Form Dual-Relay Series Outputs (with internal voltage monitoring for safety) (rated to 16A @ 110VAC)
- 4 x A-Form Single-Relay Outputs (rated to 16A @ 110VAC) (with internal voltage monitoring for safety)
- 1 x A-Form Single-Relay Output (rated to 8A @ 110VAC) Emergency Stop
- Single- Relay Output (rated to 8A @ 110VAC) Pilot
- 8 x Digital Inputs (110VAC or 24VDC)
- 8 x Analog Inputs (4-20mA)



Module Type: Power Supply + I/O (Relays / Analog Inputs / Digital Inputs)

Supply Input: 110VAC (+/- 15%) / 80/Watts

Supply Output: 24VDC / 200/Watts (Max, but reduced when using internal relays)

Data Communications: Obelix CAN (A2)

Operating Temperature: -20°C to 85°C

Inputs 1: 8 x Digital Inputs (110VAC or 24VDC)

Inputs 2: 8 x Analog Inputs (4-20 mA) only

Output 1: "Pilot Relay" C-Form (NC/NO) (110V/8A)

Output 2: "Stop Relay" A-Form (NO) (110V/8A)

Output 3: 2 x "Safety Relays" Relay Contacts (110V/16A)

(dual in-line contacts and voltage monitoring for safety)

Output 4: 4 x "Standard Relays" Relay Contacts (110V/16A)

(single contact and voltage monitoring for safety)

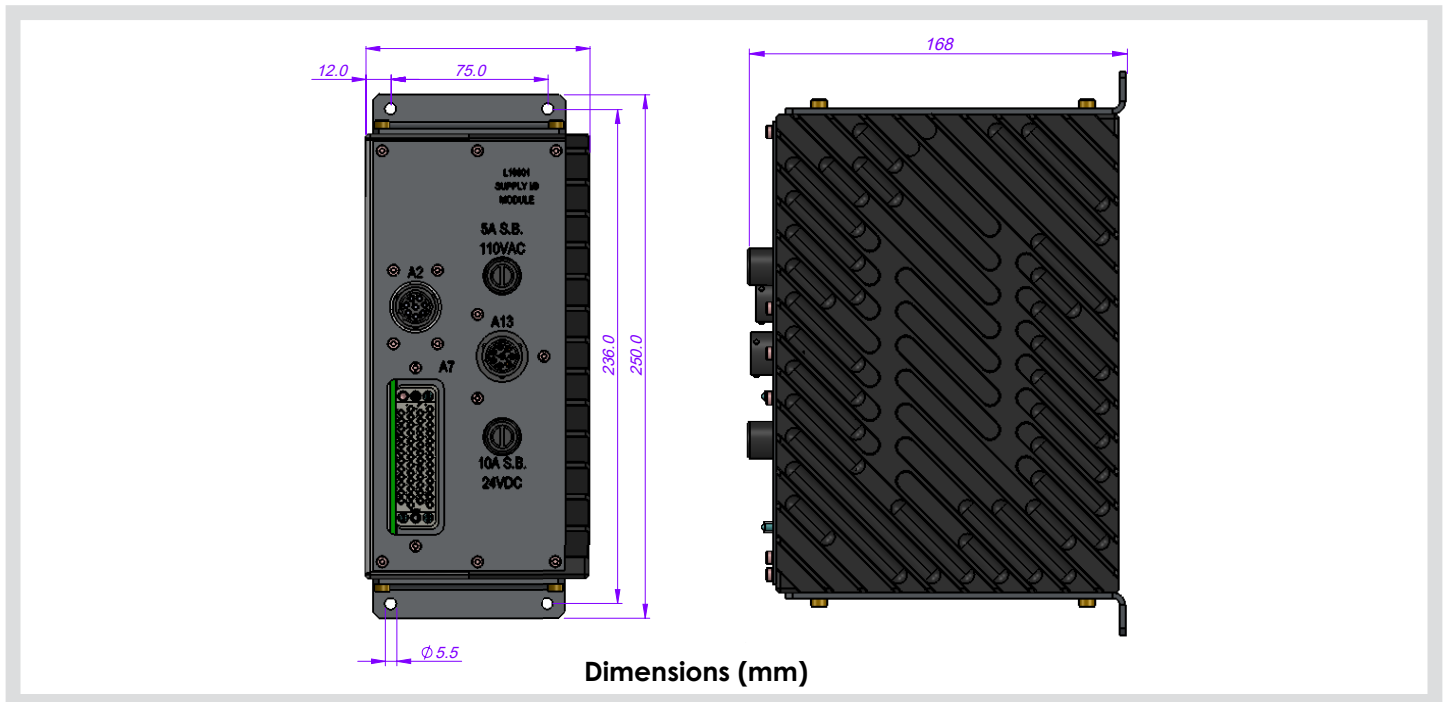
Connector 1: Obelix A2 (24VDC Supply Output 200/Watts and CAN communication)

Connector 2: Obelix A13 (110VAC Input, Emergency Stop relay 8A, Pilot Relay 8A) Cable H0LU0201

Connector 3: Obelix A7 Cable H0LU0101

(Relays, Digital Inputs 110VAC or 24VDC, Analogue Inputs 4-20mA)

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Dimensions (mm)

CONNECTOR A2

| PIN | Connector A2 Burndy Female 8 Way | Signal |
|------|--|------------------------|
| A2-A | Supply Input | 24VDC Supply Input |
| A2-B | Supply Input | 0VDC Supply Input |
| A2-C | CAN A (Positive) | Communications |
| A2-D | CAN A (Positive) | Communications |
| A2-E | CAN A (Negative) | Communications |
| A2-F | CAN A (Negative) | Communications |
| A2-G | Termination Link 1 - 1 | Termination Link Input |
| A2-H | Termination Link 1 - 2 | Termination Link Input |



CONNECTOR A13

| PIN | Connector A13 Burndy Male 8 Way | Signal |
|------|---|----------------------|
| A2-A | 110VAC Active Supply Input | 110VAC Active Input |
| A2-B | 110VAC Neutral Supply Input | 110VAC Neutral Input |
| A2-C | Pilot Relay Input | Voltage Free |
| A2-D | Pilot Relay Output (N/C) <small>Voltage Free Contacts</small> | Voltage Free |
| A2-E | Pilot Relay Output (N/O) <small>Voltage Free Contacts</small> | Voltage Free |
| A2-F | Control Relay Input | 110VAC Active Input |
| A2-G | Control Relay Output (N/O) | 110VAC Output |
| A2-H | Control Relay Reference | 110VAC Neutral Input |



Connector Assembly

| Part Number | Description |
|-------------|------------------------|
| HORUXX01 | Connector Assembly A2 |
| HOLU0201 | Connector Assembly A13 |

Connector Assembly Specifications

- **Product Type:** Pre-manufactured cable assembly
- **Construction:** Connector with flying leads (pigtail)
- **HOLU0101** Connector 1: Obelix A7 Male Plug (50-pin)
- **HOLU0201** Connector 1: Obelix A13 Female Plug (8-pin)
- **Connector 2:** Unterminated, flying leads
- **Conductors:** 8
- **HORYXX01 Connector Daisy Chain :** Obelix A2 Male Plug (8-pin)A2
- **Pin Type:** Male (Gold-plated)
- **Conductor Type:** PVDF Tinned Stranded Wire
- **Insulation Rating:** 600 volts
- **Temperature Rating:** -65°C to 105°C
- **Recommended Tools:** PVDF / Teflon Insulation Stripping Tool