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.

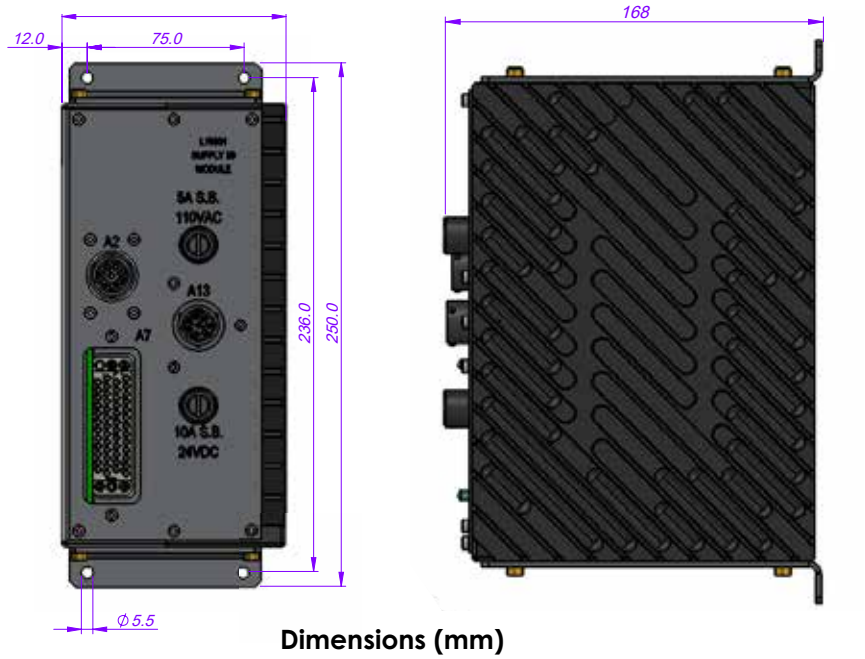
The power supply takes a 110-volt A.C. input and provides stable 24-volt D.C. output (up to 200 watts) for supplying other control system modules.

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)

L1090101 Obelix Power Supply I/O Next Generation Module (Digital Inputs110VAC)



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	Pliot Relay Output (N/C) Voltage Free Contacts	Voltage Free
A2-E	Pliot Relay Output (N/O) Voltage Free Contacts	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
H0RUXX01	Connector Assembly A2
H0LU0201	Connector Assembly A13

Connector Assembly Specifications

- **Product Type:** Pre-manufactured cable assembly
- **Construction:** Connector with flying leads (pigtail)
- **H0LU0101** Connector 1**:** Obelix A7 Male Plug (50-pin)
- **H0LU0201** Connector 1: Obelix A13 Female Plug (8-pin)
- **Connector 2:** Unterminated, flying leads
- **Conductors:** 8
- **H0RYXX01 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