

L0LX0101 Obelix Solenoid Module 110VDC

The L0LX0101 Obelix Mining PLC Solenoid Driver Module provides proven, industry-standard 110VAC digital solenoid control in a compact, robust form factor that is well suited to mobile mining applications.

The industry-standard CAN (Controller Area Network) connection provides a host PLC with the ability to control and monitor all outputs.

Uniquely Keyed Type A and Type B connectors to prevent incorrect machine installation.

Dual-safety switched 110VDC Digital outputs (up to 400 mA continuous rating).

Module Type: Multi-channel Solenoid Driver

Supply Input 1: 24VDC (+/- 10%) / 3 Watts (Max)

Supply Input 2: 110VDC (+/- 20%) / 500 Watts (Max)(based on output loads)

Data Communications: Obelix CAN (A2)

Operating Temperature: -20°C to 70°C

Inputs: None

Outputs: 20 x Dual in-line Switched 110VDC

Digital Outputs: (400 mA Maximum)

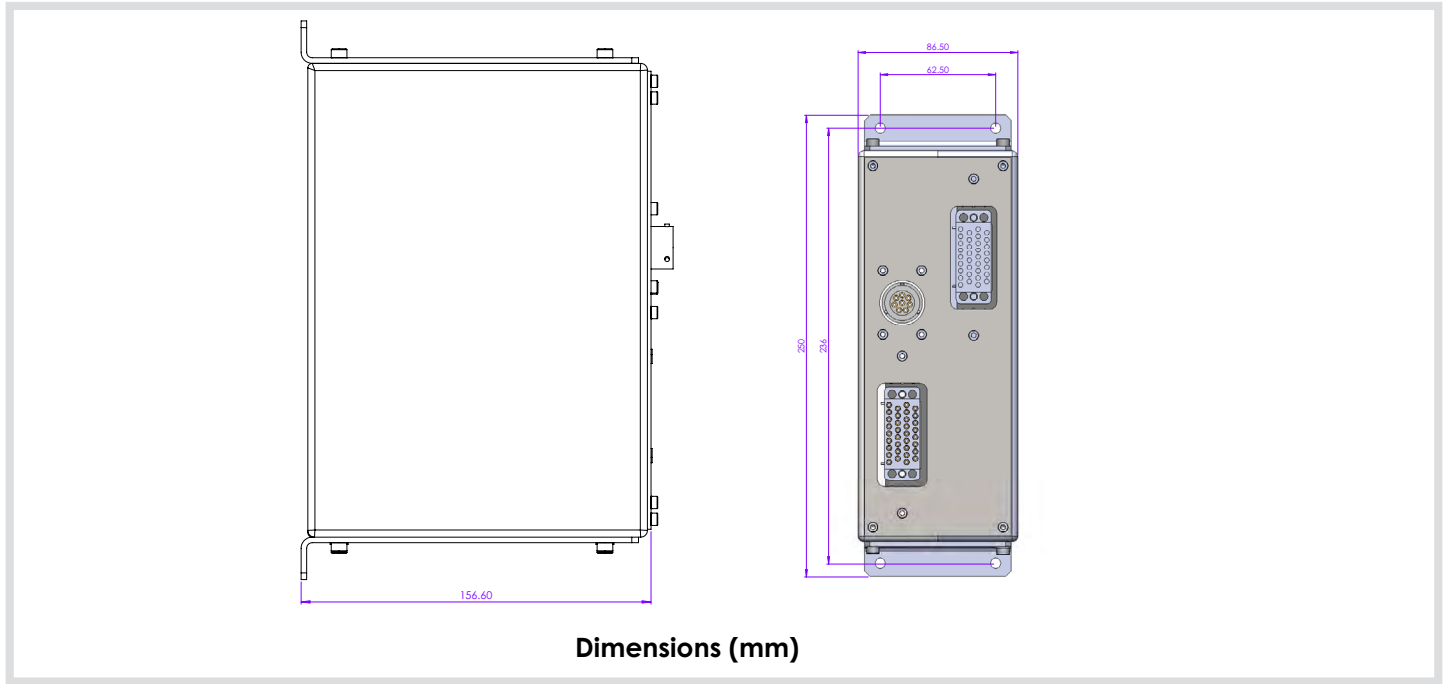
Connector 1: Obelix A2
(24VDC Input + CAN Bus)

Connector 2: Obelix A17
(PWM Outputs and 110VDC Supply Input)

Connector 3: Obelix B17
(PWM Outputs and 110VDC Supply Input)



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CONNECTOR A2

PIN	Connector A2 Burdny 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



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CONNECTOR A17

Number	Unit / PCB VMCT-34F Female Board Mount PIN	Name
1	A	0VDC
2	B	SOLENOID-2
3	C	110VDC
4	D	SOLENOID-1
5	E	
6	F	SOLENOID-3
7	H	
8	J	
9	K	
10	L	SOLENOID-4
11	M	
12	N	
13	P	
14	R	SOLENOID-5
15	S	
16	T	
17	U	
18	V	SOLENOID-6
19	W	
20	X	
21	Y	
22	Z	SOLENOID-7
23	AA	
24	BB	
25	CC	
26	DD	SOLENOID-8
27	EE	
28	FF	
29	HH	
30	JJ	SOLENOID-9
31	KK	
32	LL	
33	MM	
34	NN	SOLENOID-10



Image depict coding pins required

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CONNECTOR B17

Number	Unit / PCB VMCT-34F Female Board Mount PIN	Name
1	A	0VDC
2	B	SOLENOID-2
3	C	110VDC
4	D	SOLENOID-1
5	E	
6	F	SOLENOID-3
7	H	
8	J	
9	K	
10	L	SOLENOID-4
11	M	
12	N	
13	P	
14	R	SOLENOID-5
15	S	
16	T	
17	U	
18	V	SOLENOID-6
19	W	
20	X	
21	Y	
22	Z	SOLENOID-7
23	AA	
24	BB	
25	CC	
26	DD	SOLENOID-8
27	EE	
28	FF	
29	HH	
30	JJ	SOLENOID-9
31	KK	
32	LL	
33	MM	
34	NN	SOLENOID-10



Image depict coding pins required

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Connector Assembly

Part Number	Description
H0LX0101	Connector Assembly A17
H0LX0201	Connector Assembly B17

Connector Assembly Specifications

- **Product Type:** Pre-manufactured cable assembly
- **Construction:** Connector with flying leads (pigtail)
- **Connector 1 :** Obelix A17 Male Plug (34-pin)
- **Connector 2:** Obelix B17 Male Plug (34-pin)
- **Conductors:** 26
- **Cable Length:** 2.2 metres
- **Pin Type:** Female (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