The LOR30201 Obelix Mining PLC Inputs Module features a collection of various input monitoring resources in a compact 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 I/O resources.

The LOR30201 model features:

- Uniquely Keyed Type B connectors to prevent incorrect machine installation
- 12 x Digital Inputs (24 VDC)
- 8 x Digital Inputs (110 VAC)
- 24 x Analog Inputs (4 20 mA)
- 4 x Frequency Counter Inputs (5 kHZ Maximum')

Module Type: Multi-purpose Inputs Module

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

Data Communications: Obelix CAN (A2)

Operating Temperature: -20°C to 70°C

Inputs 1: 12 x Digital Inputs (24VDC)

Inputs 2: 8 x Digital Inputs (110VAC)

Inputs 3: 24 x Analog Inputs (4-20 mA)

Inputs 4: 4 x Frequency Counter Inputs (5 kHz Max)

Connector 1: Obelix CAN (A2)

Connector 2: Obelix B47 (Inputs)



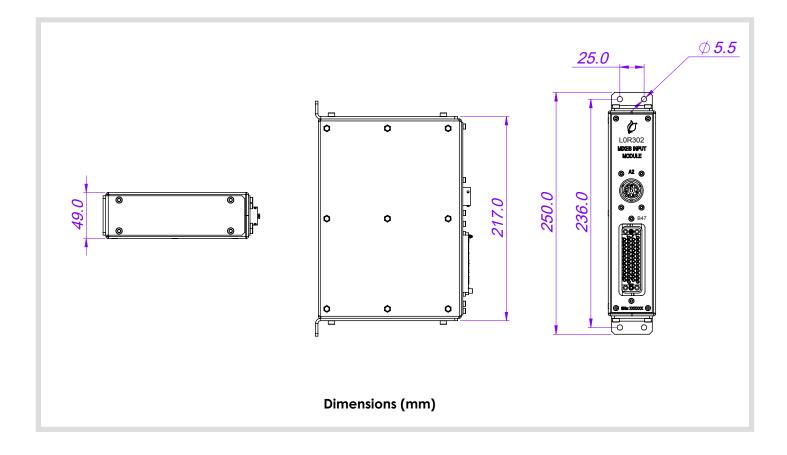
Typical Applications

- Continuous Bolter/Miners
- Continuous Haulage
- Long Wall Shearers
- **Mobile Bolters**
- Mobile Roof Supports
- **Remote Control Scoops**
- **Remote Control Loaders**
- Any industrial switching application

© Pempek 1985 – 2021 www.pempek.com.au

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: https://pempek.com.au/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement

Pempek's Product Terms and Conditions are accessible here: https://pempek.com.au/terms-and-conditions By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.



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

Datasheet-LOR30201

© Pempek 1985 – 2021 www.pempek.com.au

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: https://pempek.com.au/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement

Pempek's Product Terms and Conditions are accessible here: https://pempek.com.au/terms-and-conditions By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.

CONNECTOR B47

CONNECTOR B47			
PIN	Connector B47 Female Board Mount No.	Name	
A	1	MODULE-SEL-1	
В	2	24V Input Supply	
C	3	0VDC	
D	4	Quadrature Encoder A-Q1	
E	5	MODULE-SEL-2	
F	6	Quadrature Encoder A-Q2	
r H	7	0VDC	
J	8	Quadrature Encoder B-Q1	
J K	9	MODULE-SEL-3	
L	10	Quadrature Encoder B-Q2	
M	11	24V-DINP-2	
N	12	24V-DINP-1	
P	13	24V-DINP-4	
R	14	24V-DINP-3	
S	15	24V-DINP-6	
T	16	24V-DINP-5	
U	17	24V-DINP-8	
V	18	24V-DINP-7	
W	19	24V-DINP-10	
Х	20	24V-DINP-9	
Y	21	24V-DINP-12	
Z	22	24V-DINP-11	
a	23	ANALOG-2	
b	24	ANALOG-1	
С	25	ANALOG-4	
d	26	ANALOG-3	
е	27	ANALOG-6	
f	28	ANALOG-5	
h	29	ANALOG-8	
j	30	ANALOG-7	
k	31	ANALOG-10	
m	32	ANALOG-9	
n	33	ANALOG-12	
р	34	ANALOG-11	
r	35	ANALOG-14	
S	36	ANALOG-13	
t	37	ANALOG-16	
U	38	ANALOG-15	
v	39	ANALOG-18	
w	40	ANALOG-17	
x	41	NEUTRAL	
	42	EXTERNAL 24V PS(0.5A)	
y z	43	110VAC-DGI-2	
AA	43	110VAC-DGI-2	
BB	44 45	110VAC-DGI-4	
	45	110VAC-DGI-3	
CC			
DD	47	110VAC-DGI-6	
EE	48	110VAC-DGI-5	
FF	49	110VAC-DGI-8	
HH	50	110VAC-DGI-7	





Image depict coding pins required

Datasheet-LOR30201

© Pempek 1985 - 2021 www.pempek.com.au

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: https://pempek.com.au/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement

Pempek's Product Terms and Conditions are accessible here: https://pempek.com.au/terms-and-conditions By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to down its terms and conditions at any time.

Connector Assembly

Part Number	Description
H0R30201	Connector Assembly B47

Connector Assembly Specifications

- Product Type: Pre-manufactured cable assembly
- Construction: Connector with flying leads (pigtail)
- Connector 1 : Obelix B47 Female Plug (50-pin)
- Connector 2: Unterminated, flying leads
- Conductors: 50
- Cable Length: 2.2 metres
- Pin Type: Female (Gold-plated)
- Conductor Type: PVDF Tinned Stranded Wire

© Pempek 1985 – 2021 www.pempek.com.au

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: https://pempek.com.au/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement

Pempek's Product Terms and Conditions are accessible here: https://pempek.com.au/terms-and-conditions By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.