# Datasheet

## LONT0201 Obelix Proportional Solenoid I/O Module 24VDC Type B

The LONT Industrial Solenoid I/O Module range is designed to directly support 24VDC Solenoid applications together with a range of other I/Os. Additional analogue and digital input support make for a highly integrated I/O module.

- Embedded 24VDC Solenoid Outputs 30 x Discreet Outputs with feedback output voltage monitoring. 6 x Proportional Outputs with feedback current monitoring Switched Coil Supply & Return Multi-Stage Diagnostic Monitoring Sequential Switching Redundancy Microprocessor Controlled
- **Embedded Proximity Inputs** 15 x 24VDC Proximity Inputs Microprocessor Sampling
- **Embedded Counters Inputs** 4 x Counter Inputs 2 x Configurable Count Inputs 20Hz to 6.5KHz Quadrature Configurable.
- **Embedded Analog Inputs** 12 x 4-20mA Inputs Microprocessor Sampling
- **Embedded Digital Inputs** 8 x 110VAC Digital Inputs Microprocessor Sampling
- CAN Network **Opto-Coupler Isolation** CAN 2.0B Compatible
- Operates -10°C to +85°C All industrial components
- Heavy Duty Enclosure **Electroless Nickel Plated Rugged Construction**



### **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

### Interface Description

The Type LONT Solenoid Module utilizes industrial connectors that are unique when configured for use with the Obelix Control System. 7x24(12 A-BOTTOM, 12 B-TOP) way connectors.

Each module in the series is allocated a unique connector prefix for schematic reference purposes. For example, LONT0101 is allocated prefixes A26-A, A26-B whilst LONT0201 has B26-A and B26-B etc.

Plugs are marked as X26A, .. X26G (where X is module type A, B, C, D, E, F, G, H)

Datasheet-LONT0201

© 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 beserves the right to amend its terms and conditions at any time.

### LONT0201 Obelix Proportional Solenoid I/O Module 24VDC Type B

## **LONT Solenoid Module** Connector A26B (Bottom) – Klippon **12 Pin Female**

Pin	Description	Signal
1	Solenoid #11A Supply	24VDC Output
3	Solenoid #11A Return	24VDC Return
5	Solenoid #12A Supply	24VDC Output
7	Solenoid #12A Return	24VDC Return
9	Solenoid #13A Supply	24VDC Output
11	Solenoid #13A Return	24VDC Return
13	Solenoid #14A Supply	24VDC Output
15	Solenoid #14A Return	24VDC Return
17	Solenoid #15A Supply	24VDC Output
19	Solenoid #15A Return	24VDC Return
21	Solenoid #16A Supply	24VDC Output
23	Solenoid #16A Return	24VDC Return

## LONT Solenoid Module Connector A26B (Top) – Klippon **12 Pin Female**

Pin	Connector A26B (Top) – Klippon	Signal
2	Solenoid #11B Supply	24VDC Output
4	Solenoid #11B Return	24VDC Return
6	Solenoid #12B Supply	24VDC Output
8	Solenoid #12B Return	24VDC Return
10	Solenoid #13B Supply	24VDC Output
12	Solenoid #13B Return	24VDC Return
14	Solenoid #14B Supply	24VDC Output
16	Solenoid #14B Return	24VDC Return
18	Solenoid #15B Supply	24VDC Output
20	Solenoid #15B Return	24VDC Return
22	Solenoid #16B Supply	24VDC Output
24	Solenoid #16B Return	24VDC Return

<sup>2</sup> Solenoids Designated xA / xB can only be operated exclusively. For example, outputs 9A or 9B can be energised independently but not simultaneously.

© 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: <a href="https://pempek.com.au/terms-and-conditions">https://pempek.com.au/terms-and-conditions</a> 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 eserves the right to amend its terms and conditions at any time.

Datasheet-LONT0201

3

## LONT0201 Obelix Proportional Solenoid I/O Module 24VDC Type B

## **Electrical Characteristics**

Supply	
Voltage Module	24VDC Nominal
Wattage MIN	5W
Wattage MAX	12W
Voltage Solenoids	24VDC Nominal
Wattage <sup>MIN</sup>	OW
Wattage MAX	240W

Solenoid Outputs	
Installed	30 Redundant Discreet
Voltage	24VDC
Minimum Voltage	24VDC
Maximum Voltage	24 <sup>vDC</sup>
Installed	6 Redundant Proportional
Voltage	24VDC
Minimum Voltage	24VDC
Maximum Voltage	24VDC

Proximity Inputs			
Installed	15		
Voltage	24VDC		
Minimum Voltage	24VDC		
Maximum Voltage	24VDC		

## **Diaital Inputs**

Installed	8		
Voltage	110VAC		
Minimum Voltage	75VAC		
Maximum Voltage	130VAC		

Analog Inputs	
Installed	12
Туре	4-20mA
Scale	10-Bit
Maximum Voltage	5VDC

Communication	
Interface	CAN 2.0B
Throughput	500kbs (Supports Autobaud)
Protocol(s)	Message Oriented
Medium	Copper

© 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

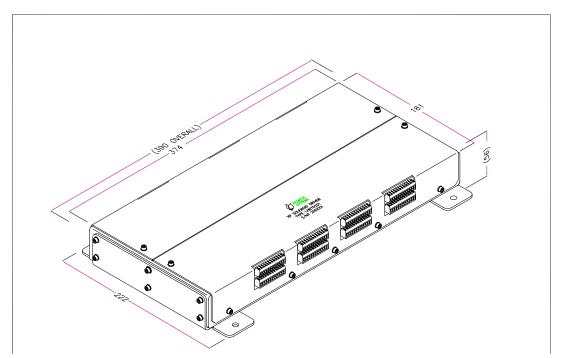
Pempek's Product Terms and Conditions are accessible here: https://pempek.com.au/terms-and-conditions By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You 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.

## LONT0201 Obelix Proportional Solenoid I/O Module 24VDC Type B

## **Electrical Characteristics**

Environmental	
Operating Temperature	Minus 20°C to +85°C
Humidity	T.B.A.
MTBF	12,000 hours

### **Mechanical Characteristics**



Dimension	Measurement	Description
A	222	Mounting Flange Width
В	390	Length
С	181	Width
D	60	Height

### Notes

All dimensions are in millimetres.

### Material

- Enclosure is Electroless nickel plated mild steel.
- Facia is stainless steel.
- Mounting brackets are stainless steel.

### Fasteners

- M5 x 10mm x 4
- M4 x 10mm x 24

#### Mass

3.5kg (7.7lb)

Datasheet-LONT0201

#### © 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.