# Datasheet

# LONT0801 Obelix Proportional Solenoid I/O Module 24VDC Type H

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)

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# **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	5
Interface	CAN 2.0B
Throughput	500kbs (Supports Autobaud)
Protocol(s)	Message Oriented
Medium	Copper

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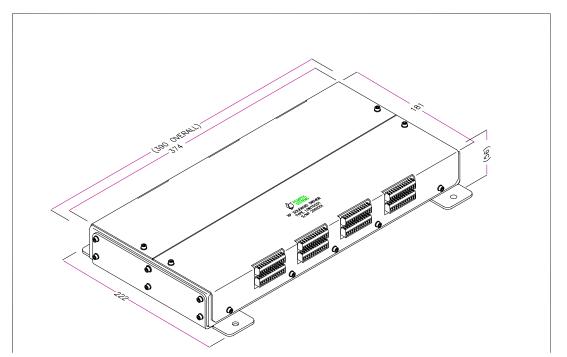
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# **Electrical Characteristics**

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)

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