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



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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 Pempek OBP 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-LONT0401

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LONT0401 Pempek OBP Proportional Solenoid I/O Module 24VDC Type D

LONT Solenoid Module Connector A26D (Bottom) – Klippon 12 Pin Female

Pin	Description	Signal
1	Counter Supply (1 & 2)	24VDC Supply
3	Counter 1	0Hz - 5KHz Pulses
5	Counter 2	0Hz - 5KHz Pulses
7	Counter Supply (3 & 4)	24VDC Supply
9	Counter 3	0Hz - 5KHz Pulses
11	Counter 4	0Hz - 5KHz Pulses
13	CAN Low	Communications
15	CAN Low	Communications
17	CAN High	Communications
19	CAN High	Communications
21	Termination Link	Communications
23	Termination Link	Communications

LONT Solenoid Module Connector A26D (Top) – Klippon 12 Pin Female

Pin	Connector A26B (Top) – Klippon	Signal
2	Analog Input 1	4-20mA Input
4	Analog Input 2	4-20mA Input
6	Analog Input 3	4-20mA Input
8	Analog Input 4	4-20mA Input
10	Analog Input 5	4-20mA Input
12	Analog Input 6	4-20mA Input
14	Analog Input 7	4-20mA Input
16	Analog Input 8	4-20mA Input
18	Analog Input 9	4-20mA Input
20	Analog Input 10	4-20mA Input
22	Analog Input 11	4-20mA Input
24	Analog Input 12	4-20mA Input

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

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LONT0401 Pempek OBP Proportional Solenoid I/O Module 24VDC Type D

Electrical Characteristics

Supply		
Voltage Module	24VDC Nominal	
Wattage MIN	5W	
Wattage MAX	12W	
Voltage Solenoids	24VDC Nominal	
Wattage MIN	OW	
Wattage MAX	240W	

Solenoid Outputs	
Installed	30 Redundant Discreet
Voltage	24VDC
Minimum Voltage	24VDC
Maximum Voltage	24 ^{VDC}
Installed	6 Redundant Proportional
Voltage	24VDC
Minimum Voltage	24VDC
Maximum Voltage	24VDC

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

Digital 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

Datasheet-LONT0401

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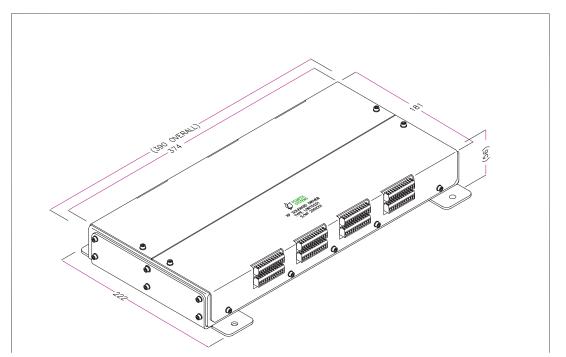
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LONT0401 Pempek OBP Proportional Solenoid I/O Module 24VDC Type D

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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