Datasheet

LONT0101 Obelix Proportional Solenoid I/O Module 24VDC Type A

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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LONT Solenoid Module MAIN Connector A26A (Bottom) – Klippon 12 Pin Female

Pin	Description	Signal
1	Solenoid #1 Supply	24VDC Output
3	Solenoid #1 Return	24VDC Return
5	Solenoid #3 Supply	24VDC Output
7	Solenoid #3 Return	24VDC Return
9	Solenoid #5 Supply	24VDC Output
11	Solenoid #5 Return	24VDC Return
13	Solenoid #7 Supply	24VDC Output
15	Solenoid #7 Return	24VDC Return
17	Solenoid #9A Supply	24VDC Output
19	Solenoid #9A Return	24VDC Return
21	Solenoid #10A Supply	24VDC Output
23	Solenoid #10A Return	24VDC Return

LONT Solenoid Module Connector A26A (Top) – Klippon 12 Pin Female

Pin	Description	Signal
2	Solenoid #2 Supply	24VDC Output
4	Solenoid #2 Return	24VDC Return
6	Solenoid #4 Supply	24VDC Output
8	Solenoid #4 Return	24VDC Return
10	Solenoid #6 Supply	24VDC Output
12	Solenoid #6 Return	24VDC Return
14	Solenoid #8 Supply	24VDC Output
16	Solenoid #8 Return	24VDC Return
18	Solenoid #9B Supply	24VDC Output
20	Solenoid #9B Return	24VDC Return
22	Solenoid #10B Supply	24VDC Output
24	Solenoid #10B Return	24VDC Return

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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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	

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

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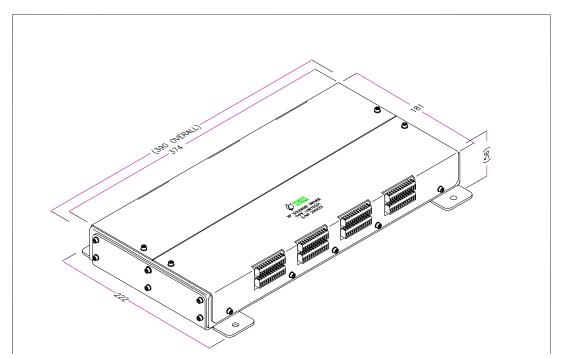
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Electrical Characteristics

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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