Datasheet

LONT0701 Obelix Proportional Solenoid I/O Module 24VDC Type G

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 Connector A26G (Bottom) - Klippon **12 Pin Female**

Pin	Description	Signal
1	Digital Input Reference	110VAC Neutral
3	Digital Input 2	110VAC Input
5	Digital Input 4	110VAC Input
7	Digital Input 6	110VAC Input
9	Digital Input 8	110VAC Input
11	Supply Input Return	0VDC Return
13	Supply Input Return	0VDC Return
15	Supply Input Return	0VDC Return
17	Supply Input Return	0VDC Return
19	Supply Input Return	0VDC Return
21	Supply Input Return	0VDC Return
23	Supply Input Return	0VDC Return

LONT Solenoid Module Connector A26G (Top) – Klippon **12 Pin Female**

Pin	Connector A26B (Top) – Klippon	Signal
2	Digital Input 1	110VAC Input
4	Digital Input 3	110VAC Input
6	Digital Input 5	110VAC Input
8	Digital Input 7	110VAC Input
10	-	-
12	Supply Input	24VDC Supply Input
14	Supply Input	24VDC Supply Input
16	Supply Input	24VDC Supply Input
18	Supply Input	24VDC Supply Input
20	Supply Input	24VDC Supply Input
22	Supply Input	24VDC Supply Input
24	Supply Input	24VDC Supply 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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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		

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

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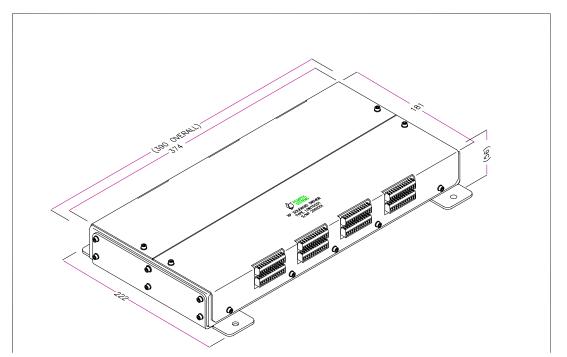
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Electrical Characteristics

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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