Datasheet

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L0NT0201 Obelix Proportional Solenoid I/O Module 24VDC Type B

The L0NT 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 L0NT 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, L0NT0101 is allocated prefixes A26-A, A26-B whilst L0NT0201 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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L0NT 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

L0NT 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

[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}	0W
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
Type	4-20mA
Scale	10-Bit
Maximum Voltage	5VDC

Communications

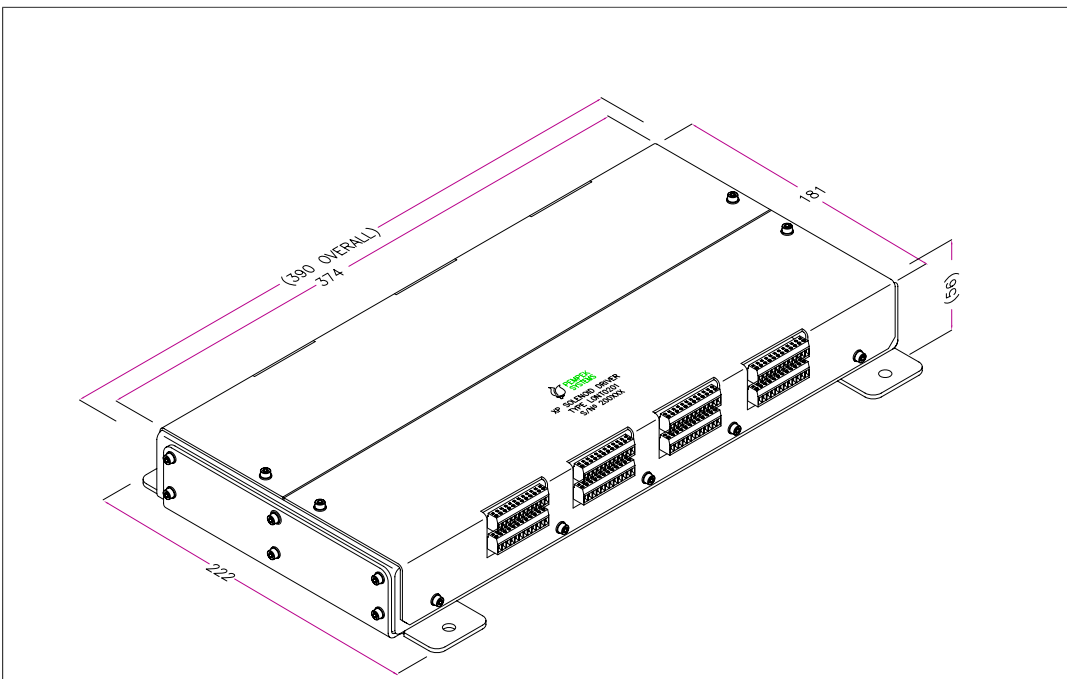|	
Interface	CAN 2.0B
Throughput	500kbs (Supports Autobaud)
Protocol(s)	Message Oriented
Medium	Copper

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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
B	390	Length
C	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)