**F E A T U R E S**

- 9 multi-purpose I/O pins in a compact, low cost, rugged module.
- 6 powerful high-frequency PWM outputs rated at 3 amps each.
- 6 digital inputs. Each output can also be used as an active high digital input.
- Analog inputs with 12 bit resolution.
- CANopen interface allows interconnection to a wide range of products, including the Curtis line of AC controllers and Curtis vehicle system controllers.
- Constant Current or Constant Voltage output modes provide accurate control.
- Built-in programmable dither amount & frequency allow precise hydraulic proportional valve positioning.
- Analog inputs can also be used as Virtual Digital Inputs with programmable On/Off thresholds and variable filters.
- Built-in coil flyback diodes reduce voltage spikes when driving inductive loads/coils.
- Sealed and positively latched I/O connector (14 pin AMPSeal)
- Externally viewable Status LEDs.
- Suitable for use on 12V internal combustion applications.

**D E S C R I P T I O N**

The Curtis Model 1352 eXM CANbus Hydraulic Input/Output Expansion Module can be added to any CANbus based control system utilizing the CANopen communication bus protocol. It provides a simple, flexible and cost effective method of controlling up to 6 proportional hydraulic valves, or can be used to connect additional digital and analog I/O to a CANbus system.

**A P P L I C A T I O N**

Any distributed or centralized vehicle control system using the CANopen protocol that requires control of hydraulic proportional valves or additional inputs and/or outputs. Typical applications include Materials Handling trucks, Aerial Lift Platforms, Airport Ground Support Equipment, Compact Construction Equipment and Sweeper-Scrubber floorcare machines.
MODEL 1352 eXM

SPECIFICATIONS

Robust Safety and Reliability

• Short circuit protection on all output drivers.
• Separate software and hardware watchdog circuits.
• Rugged sealed housing and connector meets IP65 environmental sealing standards for use in harsh environments.
• Operating ambient temperature range from -40 to +50° C.
• 500VAC electrical isolation to case.

Meets or complies with relevant US and International Regulations

• EN 50081-1-2
• EN 61000-6-2
• EN 12895
• EN 1175
• IP65 Rated Per IEC 529
• UL Listed

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1352-4001</td>
<td>12-36V</td>
</tr>
<tr>
<td>1352-6001</td>
<td>36-80V</td>
</tr>
</tbody>
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DIMENSIONS mm

[Diagram showing dimensions]
**CONNECTOR WIRING**

![Connector Wiring Diagram]

**TYPICAL WIRING DIAGRAM**

![Typical Wiring Diagram]

**WARRANTY** Two year limited warranty from time of delivery.

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