MODULAR FLUID CONTROL FOR VEHICLE CAMERA & SENSOR WASHING
Vehicle assist technology is only as good as the sensor’s ability to see the road. Dirty cameras will not work. With the vehicles of tomorrow relying on a growing number of cameras and sensors, how do you regulate a system to properly wash just the dirty sensor without wasting cleaning solvent?

Exotic Automation & Supply’s intelligent washer system efficiently provides the solvent wash or compressed air to just the sensor that needs it, increasing efficiency and saving cleaning solvent. Exotic will custom design a cleaning solution to meet your individual need, use your same pump, tank and nozzle and we will provide the intelligent zone control to meet your critical application.

Most of today’s vehicles only have washer systems for the front and rear windows, what about the growing number of cameras and sensors in tomorrow’s vehicles?

Exotic Automation & Supply’s Washer System provides custom fluid handling solutions for up to 64 vehicle mounted sensors.
Keeps Autonomous Vehicle Sensors & Cameras Clean! A multi-zone valve assembly uniquely designed to meet the demands of both washing fluid and compressed air to clean the sensors and cameras for autonomous vehicles.

With a single washer pump, you can now control specifically what sensor needs to be cleaned without the waste of cleaning fluid or compressed air going to every nozzle.

- Patent Pending Design
- Single Connection Point / Port
- Custom Wire Harness Connections Available
- Multiple Nozzle Capability per Zone (up to 4)
- Modular Zero Leak Design
- Integrated Low-Power Coil
- Works with Static or Telescoping Nozzles
- Proven Design on Automotive Applications
- Universal Valve and Base for Air and Fluid
- Made in the USA
- Works with Heated Fluid

Exotic provides fluid handling solutions for drive convenience, whether it’s fully autonomous vehicles, driver assist, 360 degree camera views or lane sensing technology.

Quick Ship Prototypes Available

www.exoticautomation.com/sensorwasher
Schematic:

Flow & Pressure Curve - Fluid:
## Fluid Control Manifold Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Rating</td>
<td>Up to 80 psi / 5.51Bar</td>
</tr>
<tr>
<td>Flow Rating - Air</td>
<td>4.03SCFM @ 50psi</td>
</tr>
<tr>
<td>Flow Rating - Fluid</td>
<td>2.5LPM @ 3.45Bar / .66GPM @ 50psi</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4°F to 221°F / -20°C to 105°C</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>9V to 16V (3.75W at 12V)</td>
</tr>
<tr>
<td>Response Time</td>
<td>5 to 6 milliseconds</td>
</tr>
<tr>
<td>Global Washer Fluid Compatibility</td>
<td>Methyl Alcohol, Isopropyl Alcohol, Ethanol Alcohol</td>
</tr>
<tr>
<td>Weight per Zone</td>
<td>.15lb / 68 grams</td>
</tr>
<tr>
<td>Connection Port Type</td>
<td>1/8” SAE Straight Thread</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP 67 with DIN Connector</td>
</tr>
<tr>
<td>Mounting Orientation</td>
<td>Can be Mounted in Any Orientation</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>304 and 416 SS, EPDM, Nylon</td>
</tr>
<tr>
<td>Air Flow</td>
<td>115 LPM @ 50 psi</td>
</tr>
<tr>
<td>Water Flow</td>
<td>2.5 LPM @ 5 psi</td>
</tr>
<tr>
<td>Durability</td>
<td>Tested to 2 Million Cycles</td>
</tr>
</tbody>
</table>

Subbases available in aluminum or plastic to fit your application.

Programmed through the vehicle ECM for automatic washing cycles.

Eliminate the error messages and inconveniences of having to manually clean a sensor.
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