



Innovations to Increase Sensor Availability for Advanced Driving Systems (ADS) and Autonomous Vehicles (AV)



Our new Fluid Control Unit (FCU) is an automotive grade solution for today's ADS and AV applications. Durable enough to withstand the demanding environments of the toughest application, the Clër™ FCU can be configured with as few as 3 independently controlled cleaning zones for today's ADS features but its modular design facilitates expansion for more complex AV designs.



The flexible design provides customized barb configurations, Analog VDC or CAN/LIN capable controls, and easily engineered integration. The optimized pressure drop can be maintained for flow rates up to 1.7LPM through a single valve, allowing for robust cleaning of sensor zones by delivering washer fluid or compressed air for up to five (5) Clër™ LIDAR nozzles. Optical sensor availability can be restored to safe and functional levels in less than 1 second when combined with our advanced Clër™ cleaning nozzles and tubing.

FUNCTIONAL CHARACTERISTICS

- Product Weight (for 3 Valves): 360 grams
- Product Package Footprint: 85x63x135mm (Main body 53x63x100mm)
- Key Materials: Steel valve components, copper wire, Silicone and EPDM seals, Plastic Housing and internal components (PA6-GF, PA66-GF, and PPSU)
- Operating Temperature: -40° to 85°C
- Operating Pressure: 0-5.5bar (0-80psi)
- Air Flow Rate: 0-100 nl/min per valve
- Liquid Flow Rate: 0-2.0 l/min per valve
- Capable of 100% duty cycle when operated with PWM current limiting
- Rated life 1.5M cycles
- Normally Closed (NC)
- Response Time: 10ms
- Currents (@13.5V)
 - o Push: 2A
 - o Hold: 900mA

AIR FLOW (per valve)

Q (nl/min)	ΔP(bar)
60	0.37
80	0.52
100	0.66

LIQUID FLOW (per valve)

Q (ml/min)	ΔP(bar)
500	0.04
1500	0.38
2000	0.68



HELPING YOU SEE THE WORLD AHEAD

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