



CVR-Series

Rheostat Switch





The CVR-Series is a configurable three- or four-position rheostat switch designed for vehicle lighting control. Available for 12VDC and 24VDC systems, the CVR-Series automotive rheostat switch is made with durable thermoplastic materials and silver-plated brass terminals for reliable operation in commercial vehicles, such as work trucks, agricultural equipment, and construction equipment. The front panel-mount dimmer switch is available with or without white backlighting.

12/24

3 or 4 **Detent Positions**

Snap-In Mounting

Typical Applications

- · Commercial Vehicles
- · Construction Equipment
- · Agricultural Equipment
- · Work Trucks



Tech Specs

Electrical

Operating Voltage	12VDC/24VDC systems
Dielectric Strength	1500V RMS (Terminal to Shell)
Insulation Resistance	50 Megohms
Terminals	.250" (6.3mm) Quick Connect
Electrical Endurance	Minimum 10,000 Operations (2,000 cycles at -40 °C, 6,000 cycles at ambient temperature, 2,000 cycles at+85 °C)

Physical

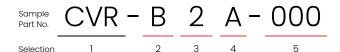
Switch functions	3 or 4 wheel detents of rotation
Materials	Housing – PC Base – Nylon Top cover – PC Wheel – Nylon Terminal - Brass, Silver Plated
Weight	≈23.8g
Mating Connection	VC2 : AMP 250 series fastin-faston VC1 : Packard 630 and AMP 250 series fastin-faston

Environmental

Thermal, Hot Soak IEC 60068-2-2 Test Bb, 85°C for 96 hours Thermal, Cold Soak IEC 60068-2-1 Test Ab, -40°C for 96 hours Thermal, Shock MIL-STD-2026 Condition A-1, 25 cycle, -55°C to +85°C Humidity, Cyclic IEC 60068-2-38 Test Z/AD, -10°C to 65°C, 10 cycle for temperature / humidity composite, 24h per cycle. Thermal, Cycling Each IEC 60068-2-14 Test Nb, -40°C to 85°C, 25 cycles of 10 hours Solar Radiation ASTM G155-05A 300hr , 1.5W/ (m2*nm) at 420nm, 300hr , Sealing Protection IEC 60529; IP53, for above-panel components of the actual switch only Shock IEC 60068-2-27, 3 shocks in each direction of the 3 axes (18 total shocks) at 300 m/s2 for 11 ms Drop EN 60068-2-31 Test Ec Free Fall - Procedure 1, drop in each direction of the 3 axes (6 total drops) from 1000 mm Vibration, Sinus MIL-STD-2026 Method 204D, condition A, Sweep from 10Hz to 55Hz with +/-0.06inch, 55Hz to 50Hz with 10g. each axis 12time, total 36 time (9h) Vibration, Random MIL-STD-2026 Method 214A Condition C, 50Hz to 2000Hz, 0.06PSD, 9.26Grms. each axis 8h, total 24h Chemical Resistance ISO 16750-5 Method II for Diesel fuel, Gasoline, Engine oil, Hydraulic fluid, Grease and Urea, interior cleaner . Salt Spray IEC 60068-2-11 Test Ka 5%Nacl, 96h. ESD Contact Discharges RCA, 175g, 200 cycles. RCA, 175g, 200 cycles.	Operating Temperature	-40°C to +85°C
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Résistance Strength withstand a torque 2N*m for 10s		
-		RCA, 175g, 200 cycles.
Panel Insertion Force 25N to 45N	Strength	withstand a torque 2N*m for 10s
	Panel Insertion Force	25N to 45N



Ordering Scheme



1. SERIES

CVR Rheostat Switch

2. WHEEL DETENTS

Three Four

3. OUTPUT

Voltage Divider

System Voltage Detent 0 Detent 3 Detent 1 Detent 2 2.8V 7.3V 9.5V 12V 5V 24V 5.5V 10V 14.5V 19V 12V 7.3V 9.5V 24V

Shunt Resistor (Only for 3 Detents)

System Voltage Detent 0 Detent 1 Detent 2 12V or 24V 42K 9.8K OHMS OHMS OHMS

4. BACKLIGHT COLOR

None Α White

5. CAP AND WHEEL LEGEND

000 No legend 001 Legend 1 **002** Legend 2 **003** Legend 3 **004** Legend 4



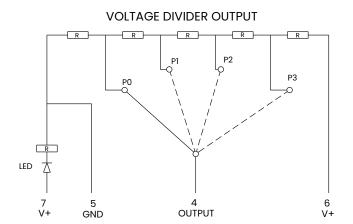




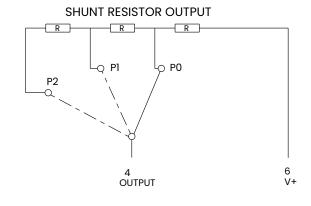
For additional legends, please consult factory

© Configure Complete Part Number >

Circuit Diagram

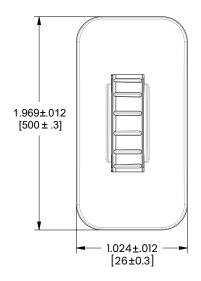


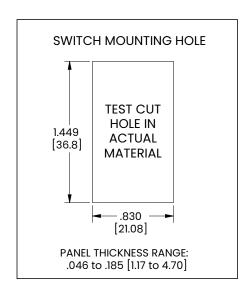
4 DETENTS AS SHOWN, NO P3 FOR 3 DETENTS

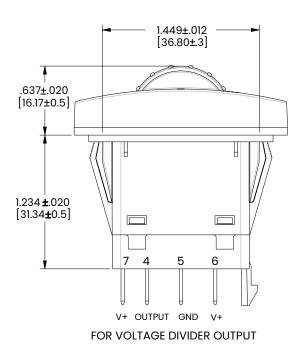


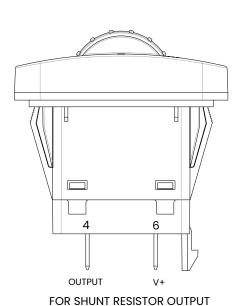
Dimensional Specs

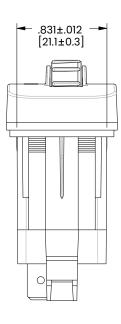
inches [millimeters]











MATING CONNECTOR:

VC2: AMP 250 series fastin-faston

VC1: Packard 630 and AMP 250 series fastin-faston