

# HOT FEED

Information on New Products from Cole Hersee Company



## Introducing the new... **Marine Digital Signal Rocker™**

*The first rocker specifically engineered for switching electronic signals!*

*We designed our DSRockers™ switch for use with existing and proposed microprocessor-based marine electrical/electronic systems such as NMEA2000 and CAN-compatible systems.*

*Its performance surpasses that of any marine rocker switch on the market.*

The DSRockers™ isn't an electrical switch that's been re-engineered to cope with the problems of very small currents. It's specifically designed to meet the exacting specifications and performance criteria demanded by the latest electronic circuitry.

- To boaters they look like and feel like regular marine rocker switches.
- To boat designers they allow yards and yards of heavy gauge wire to be eliminated, and free them from having to use proprietary switch clusters.

As part of a digital databus system, the DSRockers on the panel can operate equipment like blowers, trim tabs, winches and pumps, by means of a single twisted pair.

### **CONVENTIONAL OPERATION**

- Operates like electromechanical rockers.
- LED lighting.
- Illuminated symbols and text.
- Dependent or independent lighting.
- Snap-in mounting.
- Weatherproof.

### **UNCONVENTIONAL PERFORMANCE!**

- Exceeds 1,000,000 On-Off cycles.
- Wide range of switching options.
- Connectors or sealed wires.
- Reduces harness weight, complexity... and cost.
- Non-proprietary: cross-platform.

*Patent pending.*

*See Technical Specifications on the back of this sheet.*



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See our interactive product catalog at [www.colehersee.com](http://www.colehersee.com)

# Digital Signal Rocker™

**The first rocker switch designed specifically for use in low current or microprocessor-based circuitry, with the look and feel of a conventional switch.**

Conventional electromechanical switches are poorly adapted for low-current switching due to build-up of minute layers of oxidation or corrosion on the contact surfaces. These layers progressively inhibit reliable low level switching. The DSRocker is the first switch that combines the appearance and robust operation of a rocker with specifically-engineered low current circuitry.

## DESIGN BENEFITS

- Large range of switching options.
- Reduced wire harness complexity.
- Lower assembly cost due to fewer connections, terminals and wires.
- Exceeds 1,000,000 On-Off cycles.
- Ultra-reliable LED backlighting.
- Surpasses all rocker switch designs currently on the market in this application.

## MECHANICAL SPECIFICATIONS

- Connection:  
Standard 6 x .025" square pin x .100" centers.  
Terminal header or pigtail wires with connector to customer specification.
- Snap-in mounting dimensions: 1.734 x .867"
- Graphics: Any alphanumeric or international symbol.
- Design life:  $\geq 1,000,000$  mechanical cycles.

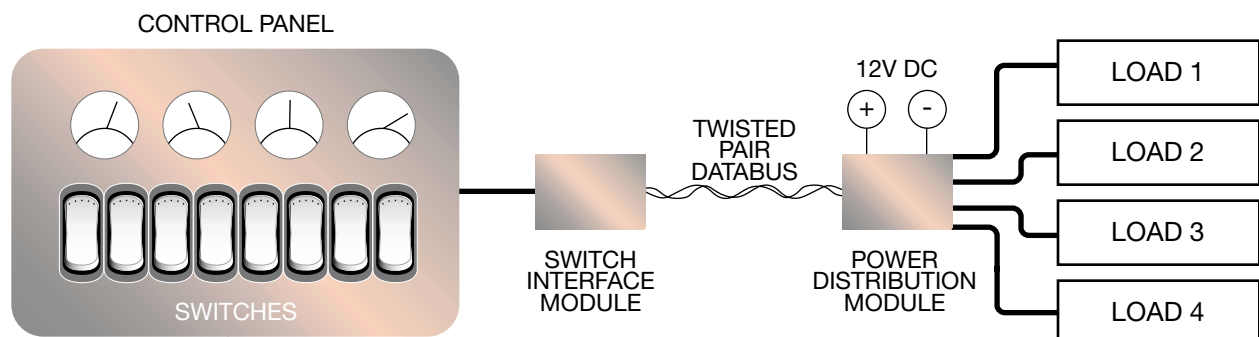
## ELECTRICAL & ELECTRONIC SPECIFICATIONS

- Power source for digital switching circuit: 5V. 12V and 24V are also available.
- Maximum contact rating: 20mA.
- Maximum contact power dissipation: 1.0W at < 1% duty cycle.
- Contact resistance:  $\leq 200$  Ohms.
- Gold plated interdigitated contacts.
- Lighting:  
Dependent or independent surface-mount LEDs.  
Illuminated backlit symbols.

## ENVIRONMENTAL & COMPLIANCE SPECIFICATIONS

- Operating temperature range: -40°C through +85°C.
- Designed to meet SAE J1455.
- Front and switch mechanism sealed to IP67.

## BLOCK DIAGRAM



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