

rotary switches encoders  
toggle switches indicator  
lights pushbutton switches  
custom switches rocker  
switches transformers  
custom switches custom  
assemblies miniature switches  
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**ELECTROSWITCH**  
• **ELECTRONIC PRODUCTS**  
UNIT OF ELECTRO SWITCH CORP.

## Not Just Rotary Switches



2010 Yonkers Road  
Raleigh, NC 27604  
888.768.2797  
[www.electro-nc.com](http://www.electro-nc.com)

## Design Solutions from Electros witch

### Electros witch Electronic Products

Electros witch Electronic Products was established in 1986 as a new unit of Electro Switch Corp. founded in 1946. The Electronic Products Unit designs and manufactures high quality rotary switches, indicator lights, transformers and encoder products for electronic applications. With skilled, experienced design engineers, the Electronic Products Unit has the unique ability to offer OEMs custom designed solutions that precisely fit customer requirements in hundreds of applications.

The management and staff of Electros witch Electronic Products is committed to supplying its customers with quality, selection, product innovation and outstanding support - all of which are trademarks of Electros witch.

### Vertical Integration Supports

#### Improved Quality Control



#### Shorter Lead Times



#### Efficient Customization



#### Cost Control



# Full Service Design and Application Engineering

Engineering has the resources to design, prototype, build, and test a switch to meet your specification.

We can offer any degree of customization, from simple material changes to complete custom assemblies. We will manufacture the switches in our vertically integrated facilities with the shortest lead times in the industry.

We can take standard parts and customize them to meet a customer's specific needs.

## The Electroswitch Engineering Group will:

Take the guesswork out of selecting the correct series and part number

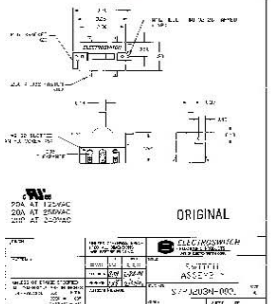
Provide design assistance to integrate our product into your application

Deliver a diversified knowledge base in engineering, manufacturing, product performance, and industry specific issues.

## Value Added Options Include:

Special outputs (BDC or other)  
Cable Harness  
Special Temperature Ratings  
Push to Turn Shaft  
Mil Spec Testing

Overmolding  
Sealing (to IP67)  
Knurled Shaft  
Dual Concentric Shafts  
Key Lock Assembly





- 3-D CAD Capabilities
- In House UL Certified Test Lab
- ISO 9001:2008
- Benchmark Production and Sample Lead-times
- In House Tool Design & Fabrication
- Vertically Integrated



# Rotary Switches

Electroswitch is the industry leading supplier of rotary switches offering a wide range of options for different applications comprised of switch lines originating from Stackpole, Shallcross, ASM, CRL, Centralab and Oak Grigsby.



## Rotary Switches

Enclosed Frame	Open Frame	Specialty
C and M Series	D, A, F, SK, 4M, 7M, LK, RK Series	E, MLR, and TO5 Series
Protection from Dust / Contamination	Flexible Contact Circuitry	Subminiature .362" Diameter
Multiple Index Angles Up to 24 Positions	Multiple Index Angles Up to 48 Positions	Multiple Index Angles Up to 24 Positions
Up to 100 Poles Compact Construction	Up to 36 Poles	Miniature Lever Switches
Up to 2.0A @ 28VDC	Up to 2.25A @ 28VDC	High Current Variations
Dual and Tri Concentric Shafts	Dual and Tri Concentric Shafts	Spring Return Options
Sealing Options, Up to IP67	Shaft and Panel Sealing Options	Shaft and Panel Sealing Options
PC and Panel Mount	PC and Panel Mount	PC and Panel Mount
Mil Spec 3786 Versions	Mil Spec 3786 Versions	UL / CSA



**C Series**

Try our Rotary Switch Configurator to help narrow down a specific part number to meet your needs.  
[www.electro-nc.com](http://www.electro-nc.com)

The Enclosed Design **C Series** Switch is ideal for low profile compact applications. Options include BCD outputs, water resistant sealing, push to turn & dual concentric shafts.

**M5 Series**



The **M5 Series** meets the requirements of MIL-S-3786/40. The stacked modular design provides a rugged, vibration proof unit for demanding switch applications.

**Typical Applications:** Military Vehicle and Communication Equipment, Professional and High End Audio, Electric Guitars, Avionics, Medical X-Ray and Dental Equipment, Transportation, Test and Measurement and Heavy Duty Industrial Equipment

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**D Series**

**E2 Series**





# Toggle, Rocker and Pushbutton Switches

Electroswitch has expanded its product offering by adding Gaynor Electric switches to our Eaton miniature line.



## Toggle, Rocker and Pushbutton Switches

Power Pushbutton	Pushbutton	Power Toggle	Miniature Toggle	Sealed Rocker / Toggle	Mil Spec Miniature Toggle	Miniature Rocker
7000 and 6000 Series	PB, PS, SA Series	9000, 7000, 6000 Series	A Series	WT / WR Series	M8 Series	B Series
Momentary or Alternate Action	Momentary or Alternate Action	Momentary or Alternate Action	Up to 4 Poles	Up to 2 Poles	Up to 4 Poles	Up to 4 Poles
Up to 15 Amps	Up to 6 Amps	Up to 20 Amps	Up to 6 Amps	Up to 6 Amps	Up to 6 Amps	Up to 6 Amps
Multiple Mounting and Terminal Types	Multiple Mounting and Terminal Types	Multiple Mounting and Terminal Types	Multiple Mounting and Terminal Types	IP67 Rated	Multiple Mounting and Terminal Types	Multiple Mounting and Terminal Types
UL / CSA	UL / CSA	UL / CSA	UL / CSA	UL / CSA	Manufactured to Mil-Spec 83731	UL / CSA



7000 Series Toggles

The 6000, 7000 and 9000 Series power toggles have up to a 20 amp rating in a compact size. These switches are available in a wide range of momentary and maintained single throw or double throw circuits, multiple termination, and bushing/toggle configurations.



6000 Series Toggles



7000 Series Pushbuttons

The 6000 and 7000 Series power pushbutton switches are rated up to 15 amps. These are heavy duty switches suitable for a variety of foot switch applications.



A Series Toggles

Electroswitch **Miniature Switches** are rated up to 6 amps with up to 4 poles and numerous terminal & actuator options. Sealing options include an IP67 rating.



B Series Rockers

SA Series Pushbuttons

**Typical Applications:** Military, Test and GPS Equipment, High End Audio, Amplifiers, Vacuum Cleaners, Farm and Construction Equipment, Avionics Applications, Electrical Equipment



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# Rotary Encoders

Electroswitch has added a new 1/2 inch Magnetic Encoder to its former Oak Grigsby Mechanical Encoder Series.



## Rotary Encoders

Magnetic	Mechanical	Mechanical
500 Series	700 Series	MM Series
Robust, 1/2" Size	Most Economical	Most Robust, .865" Size
Sleeve Bearing	Detents up to 36 Positions	Detents up to 32 Positions
High Resolution Quadrature and Absolute	Quadrature, Gray, Absolute, Resistive	Hexadecimal, B.C.D., Gray, and other readouts
IP67 Sealing	Pushbutton Feature	Shaft and Panel Sealing Options
Low Power Consumption	Resistive Options	Dual and Tri Concentric Shafts

700 Series



The **500 Series** 1/2" Magnetic Encoders integrate Hall Effect Sensing and Digital Signal Processing that provides high-resolution angular measurement capabilities. This small high shock & vibration resistant design excels in harsh dirty environments and can be sealed to meet IP67 requirements.

The economical **700 Series** provides a host of options including Incremental output codes ideal for scroll functions and resistive outputs for temperature selection applications.



MM Series



MM Series



The **MM Series** represents the best in contemporary rotary technology and reflects the high standards of reliability that have made Electroswitch rotary devices known worldwide. At only .86" square, these compact switches have up to 32 positions adaptive to numerous design requirements.

**Typical Applications:** Avionics, Medical and Diagnostic Equipment, Construction and Agricultural Controls, Appliances, Audio, Transportation / Off Road Equipment





# Indicator Lights and Transformers

Electroswitch has expanded its product offering beyond switches with the addition of Oak Grigsby Indicator Lights and Paraline Transformers.

**MS25041 and MS25331  
Press To Test Indicators**



## Power Transformers

Windings	Terminations	Styles	Standards
Single (with 1 or 2 windings plus taps)	Leads	Horizontal	UL
Dual (with 1 or 2 windings plus taps)	Solder lug	Vertical	CSA
Up to 5 output windings plus taps	Quick Connect	PC board	Class B 130° C
Audio transformers with 1 winding plus taps for both input and output	Screws	2 and 4 hole bracket	RoHS
Operate at 47 - 63 Hz	PC mount	No Bracket	Case Sizes

Our transformers are available in 16 standard sizes, 36 secondary voltages and 13 case style variations totaling over 3400 different options. Electroswitch specializes in customizing transformers for specific requirements.



Transformers

## Panel Indicators



Electroswitch panel indicators embody the best materials and performance features. Materials, finishes, and workmanship conform to military, federal, and industry specifications.

## Indicator Lights

Optolite (Indicator Lights)	Presslite (Illuminated Pushbuttons)
Standard, Miniature or Subminiature Versions	Momentary or Alternate Action
Press To Test	3, 5, or 10 amp Variations
Watertight Options	Low Profile
EMI Suppressed	Single or Double Pole
Manufactured to Mil Spec Requirements	Friction Caps

**Typical Applications:** Military Weaponry, Avionics Equipment, Vehicle Control Panels, Communication and Navigation Equipment, High End Audio, Amplifiers, Mail Sorters, Medical and Robotics Applications



## THE ELECTRO SWITCH CORPORATION FAMILY... PROVIDING INTELLIGENT SOLUTIONS FOR SWITCHING AND CONTROL



Complete line of electrically and manually activated Rotary Switches and Relays for electric utility, defense, and industrial monitoring and control applications



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Rotary Switches; Miniature Toggle, Paddle, Rocker, Power Toggle, and Push-Button Switches; Hall Effect, and Mechanical Encoders; Illuminated Switch Products; and Power Transformers



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Raleigh, North Carolina 27604  
Phone: 888-768-2797 • Fax: 800-909-9171 • [sales@electro-nc.com](mailto:sales@electro-nc.com)  
[WWW.ELECTRO-NC.COM](http://WWW.ELECTRO-NC.COM)