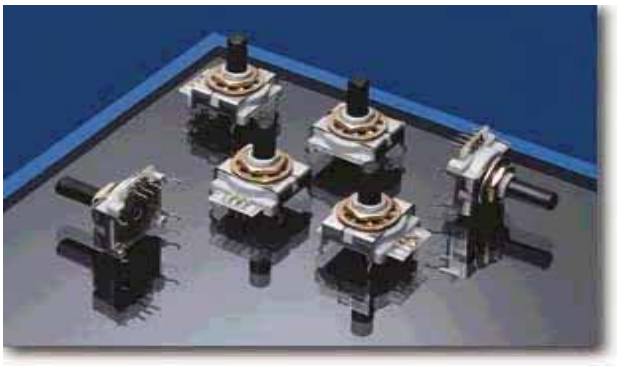
Electroswitch 700 Series Mechanical Encoders

ISO9001:2000



*Digital Codes Available: Incremental, Quadrature, Absolute, Gray
* Analog Resistive Output For Use As A Potentiometer
* 5K, 10K and 20K Resistive Element Standards
* High Temperature Materials Meet 85°C Requirements
* Push-button Feature Allows Dual Function With Single Shaft Input

The Electroswitch 700 Series is the economical solution to virtually any digital encoder or potentiometer requirement. As the latest version in our new generation of rotary encoder products, the 700 Series has been freshly tooled to include resistive analog output for potentiometer applications, as well as the standard digital code for direct interface with a microprocessor. The .890" package enhances the original design concept, delivering high performance and quality levels in triple digit PPRs. For 700 Series Specifications and Dimensional Information visit www.electro-nc.com

Standard Offering Now Available Through Distribution

Mfr's Type	Code	Cycles/ Revolution or Resistive Value	No. of Detent Positions
700-09-36	Quadrature	9	36
700-16-16	Quadrature	16	16
700-24-24	Quadrature	24	24
701-08-32	Quadrature with Pushbutton	8	32
701-04-16	Quadrature with Pushbutton	4	16
701-06-24	Quadrature with Pushbutton	4	24
702-01-12	Absolute	1	12
702-01-16	Absolute	1	16
702-01-24	Absolute	1	24
703-05-00	Resistive	05K	No Detents
703-10-00	Resistive	10K	No Detents
703-20-00	Resistive	20K	No Detents
704--05-00	Resistive with Pushbutton	05K	No Detents
704-10-00	Resistive with Pushbutton	10K	No Detents
704-20-00	Resistive with Pushbutton	20K	No Detents

RoHS Compliant

Ordering the 700 Series Encoder

Code
700: Quadrature
701: Quadrature with Push-button
702: Absolute
703: Resistive
704: Resistive with Push-button

Electrical Cycles or Resistive Value
700: 06, 08, 09, 12, 16, 24, 32 or 36
701: 06, 08, 09, 12, 16, 24, 32 or 36
702: 01
703: 05K, 10K, OR 20K
704: 05K, 10K, OR 20K

Number of Detent Positions
700: 12, 16, 24, 32, 36 or 00: No Detents
701: 12, 16, 24, 32, 36 or 00: No Detents
702: 12, 16, 24, or 32
703: 00: No Detents
704: 00: No Detents

701 **08** — **32**

Ordering

700 Series Mechanical Encoder Applications Timer and Temperature Selection - Incremental output codes are ideal for scroll functions required for input devices and resistive output for temperature input selection.
HVAC Temperature and Fan control - Digital or analog output for temperature with direct drive to display and fan control for automotive use.
Electronic Range Control - Control of bake time, temperature and duration in residential and commercial applications
Panel Input Device - Used to scroll through menu via shaft rotation for selecting menu items via pushbutton.
Audio Input - Volume control for all amplifier applications; automotive, musical, home, and professional.

2010 Yonkers Road Raleigh, NC 27604 • tel: 1.888.768.2797 or 919.833.0707
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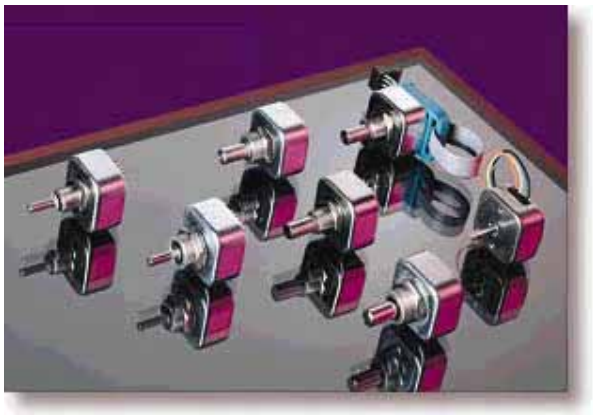
Electroswitch 900 Series Optical Encoders

ISO9001:2000



*Compact, Robust, Economical
* Up to 256 Pulses Per Revolution (PPR) in a 1" Square Sealed Package
*Bearing Model for High Operating Speeds
* New Low Profile Housing Style
* Two Channel Quadrature Output
* Pin or Cable Output

The Electroswitch 900 Series offers a full line of low cost, rugged optical encoders with incremental output. Well suited for industrial motion and position sensing, their low profile and high resolution also make them ideal for panel mounted applications. A two-channel quadrature code allows the encoder to detect the direction and magnitude of the input motion applied to its shaft. For 900 Series Specifications and Dimensional Information visit www.electro-nc.com

Standard Offering Now Available Through Distribution

Mfr's Type	Shaft and Bearing Style	Code	Resolution	Termination
90Q064-00-00	1/4" shaft, 3/8" sleeve bearing	Quadrature	64	Straight Pins
90Q064-40-00	1/4" shaft, 3/8" sleeve bearing	Quadrature	64	4" cable w/ connector
90Q128-00-00	1/4" shaft, 3/8" sleeve bearing	Quadrature	128	Straight Pins
90Q128-40-00	1/4" shaft, 3/8" sleeve bearing	Quadrature	128	4" cable w/ connector
95Q256-00-00	1/4" shaft, 1/2" ball bearing	Quadrature	256	Straight Pins
95Q256-40-00	1/4" shaft, 1/2" ball bearing	Quadrature	256	4" cable w/ connector

Ordering the 900 Series Encoder

Output Style
Q = Quadrature (two channel)
T = Tachometer (single channel)

Resolution (Pulses Per Revolution)
032 125
064 128
100 256

Pin Out Style
0 + A B -
2 - open A + B

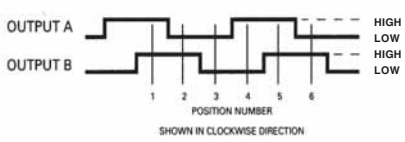
9 0 Q 0 3 2 - 0 0 - 0 0

Shaft and Bearing Style
0: 1/4" dia. shaft, sleeve bearing, 3/8" dia. bushing
1: 1/4" dia. shaft, sealed sleeve bearing, 3/8" dia. bushing
2: 1/8" dia. shaft, ball bearing, 3/8" dia. bushing
3: 1/8" dia. shaft, sealed ball bearing, 1/2" dia. bushing
4:1/4" dia. shaft, ball bearing, 1/2" dia. bushing
5: 1/4" dia. shaft, sealed ball bearing, 1/2" dia. bushing
6: 1/8" dia. shaft, internal ball bearing

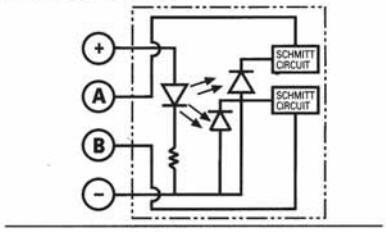
Termination
0: Straight Pins (see drawing)
4: Standard 4" cable and connector
L: Custom cable length
Example: 8 = 8" cable length

Ordering

Two Channel Waveform



Electrical Schematic



900 Series Optical Encoder Applications

Mobile Sensing/Control - Motion and direction are sensed through the encoder's shaft and sent directly to a microprocessor.
Motor Control Devices - Control of motor circuits is accomplished by linking encoder to motor shaft.
Flow Control Devices - Fluid flow can be metered by the encoder attached to displacement, turbine and other styles of meters and pumps.
Input Devices - Panel mounted, the device is used as a low to high resolution input device for test and measurement, medical, and instrumentation of all varieties.

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