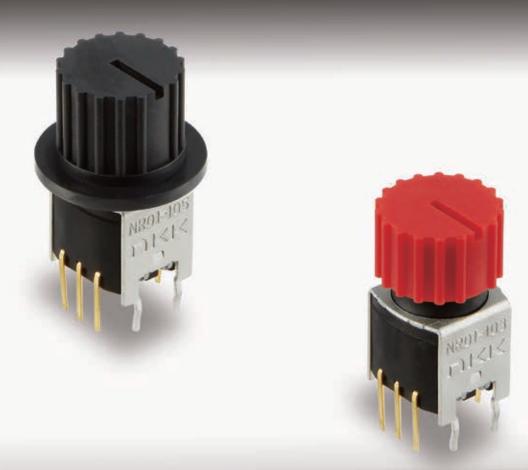
New Product

NR01 Series Process Sealed Rotaries



Subminiature Rotaries with Positive, Distinctive Detent



General Specifications

Electrical Capacity (Resistive Load)

Logic Level:

0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find additional explanation of operating range in Supplement section

Other Ratings

Materials & Finishes

Housing: Base:	Glass fiber reinforced polyester (PBT) Glass fiber reinforced polyamide
Rotor:	Polyacetal
Movable Contactor:	Beryllium copper with gold plating
Stationary Contacts:	Phosphor bronze with gold plating
Terminals:	Phosphor bronze with gold plating
Mounting Bracket:	Steel with tin plating

Environmental Data

Operating Temperature Rang Humidit Vibratio Shoo	 90 ~ 95% humidity for 96 hours @ 40°C (104°F) 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
PCB Processing Solderin Cleanin	Peak Temperature 270°C; Peak Time 6 seconds; Thickness of PCB 1.6mm; 2 Cycles. Manual Soldering Recommended: Temperature 390°C for 4 seconds, 2 cycles.

Standards & Certifications

The NR01 Series rotaries have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.

Note: Values are determined by NKK's individual specification tests in a controlled environment, and do not certify that the product supports simultaneous multiple conditions.



Distinctive Characteristics

Totally sealed construction with internal o-ring, gasket between base and housing, and insert-molded terminals, gives protection for automated processing techniques.

Detent mechanism, with its spring-operated steel ball, gives distinct feel and crisp actuation for accurate switch setting.

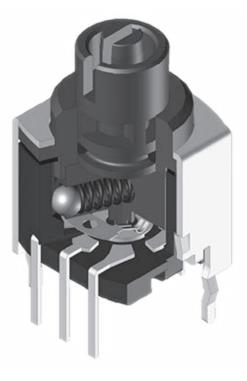
Subminiature size and compact body contributes to high density mounting.

Bifurcated, self-wiping contact mechanism provides unequalled logic-level reliability and smoother, positive detent actuation.

Crimped bracket legs ensure secure PCB mounting and prevent dislodging during automated wave soldering.

Molded-in terminals prevent entry of flux and other contaminants.

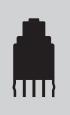
 $.100^{\prime\prime}$ x $.100^{\prime\prime}$ (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing.



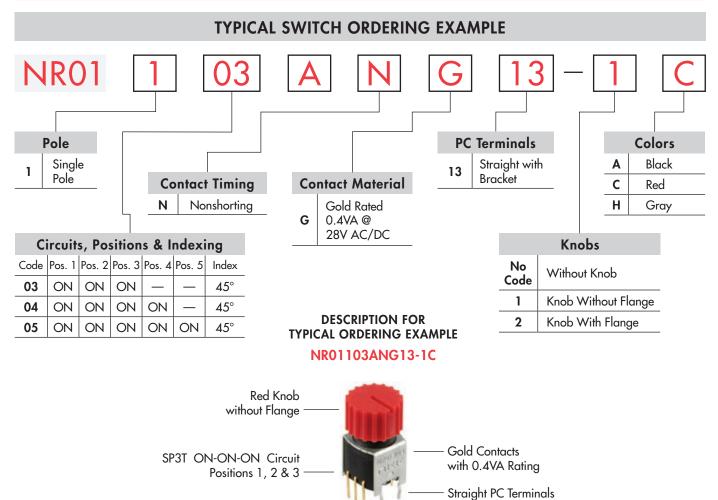
Applications

- Power Control Equipment
- Measuring Devices
- Telecommunication Equipment
- Medical Equipment
- Teaching Pendant









POLES & CIRCUITS

		Actuator Positions				Connected Terminals				Throw & Schematics		
Pole	Model	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Note: Terminal numbers are not actually on switch
SP3T	NR01103	ON	ON	ON			C-2	C-3	C-4			C 2 3 4
SP4T	NR01104	ON	ON	ON	ON		C-2	C-3	C-4	C-5		
SP5T	NR01105	ON	ON	ON	ON	ON	C-1	C-2	C-3	C-4	C-5	

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CONTACT MATERIAL & RATING



Gold over Bronze or Copper

Logic Level

0.4VA @ 28V AC/DC maximum



Straight PC with Bracket

TERMINALS

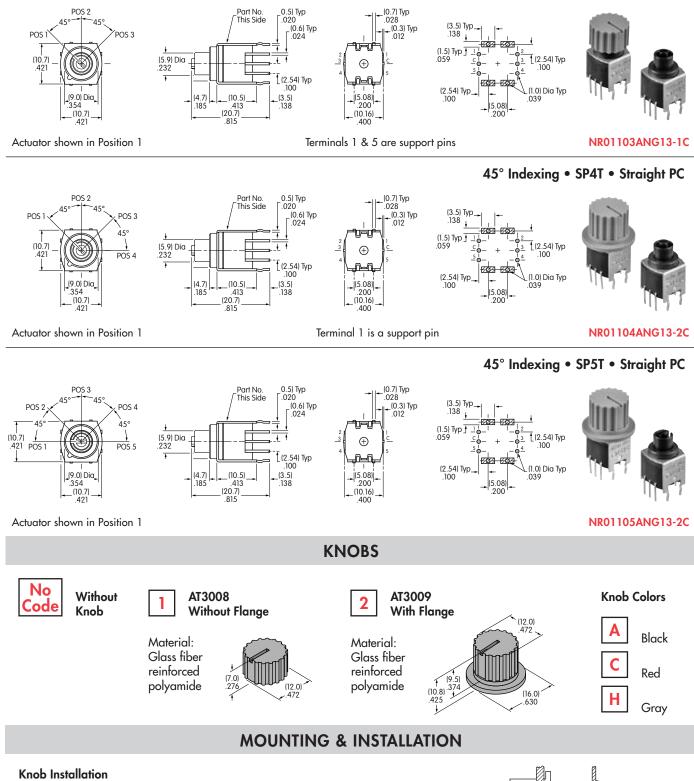
with Bracket



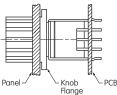


TYPICAL SWITCH DIMENSIONS

45° Indexing • SP3T • Straight PC

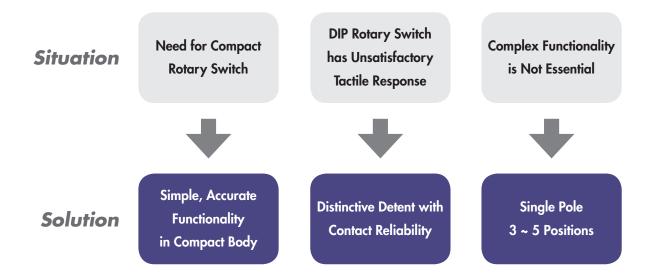


To prevent knob from disassembling from the switch, it is recommended to use the type with a flange. Mount the knob with the flange (AT3009, assembled to switch) beneath the panel, as shown in illustration.





Ideal for Applications that Require Small Sizes with Precision & Reliability



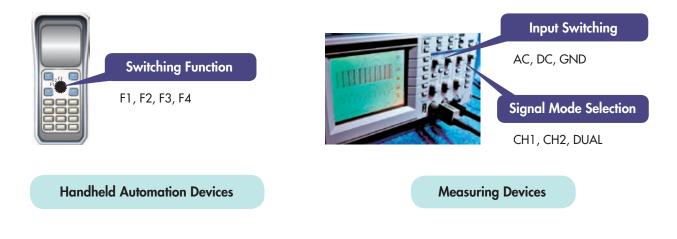
Advantages

- Simplified soldering and automated cleaning processes enhance production efficiency
- Reinforced bracket with crimped legs improves mounting stability and strength
- Easy, straightforward functionality

Series NR01

• Small, subminiature size with precise detent and crisp actuation

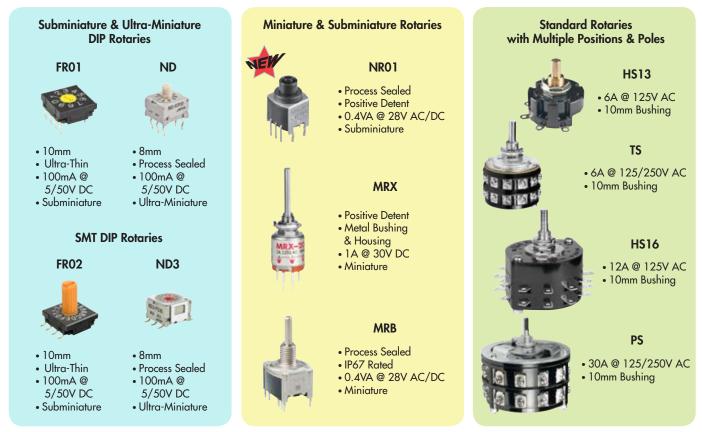
Typical Applications





A Comprehensive Line of Rotary Switches Meets a Variety of Applications

PCB Mount Rotaries	NR01	MRB	MRA112	FR01	
Specifications			HILL I		
Number of Poles	1	1	1, 2, 4	-	
Positions	3, 4, 5	2, 3	2 ~ 12	_	
Electrical Capacity	0.4VA Max @ 28V AC/DC Max	0.4VA Max @ 28V AC/DC Max	250mA @ 125V AC	100mA @ 5V DC	
Electrical Life	10,000 Operations Min	10,000 Operations Min	10,000 Operations Min	10,000 Detent Operations Min	
Operating Temperature	-25 ~ +70°C (-13 ~ +158°F)	–10 ~ +70°C (+14 ~ +158°F)	-10 ~ +70°C (+14 ~ +158°F)	–25 ~ +85°C (–13 ~ +185°F)	
External Dimensions	10.7 x 10.7mm (.421 x .421")	14.5 x 15.74mm (.571 x .620")	16mm Dia (.630″ Dia)	10.0 x 10.0mm (.394 x .394")	
Process Sealed	Yes	Yes	Yes	No	



NKK offers optional knobs for Rotary Switches. See Accessories or contact our Sales Department.

Effective Date July 2017

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