8mm Process Sealed DIP Rotaries

Series ND

General Specifications

Electrical Capacity (Resistive Load)

Switching Rating: 100mA @ 5V DC Nonswitching Rating: 100mA @ 50V DC

Other Ratings

Contact Resistance:	80 milliohms maximum for circuit; 30 milliohms maximum for contact point
Insulation Resistance:	1,000 megohms minimum @ 250V DC
Dielectric Strength:	250V AC minimum for 1 minute minimum
Mechanical Life:	20,000 detent operations minimum
Electrical Life:	20,000 detent operations minimum
	Notes: A detent operation is one actuator position operation or stepping.
	20,000 detent operations = 1,250 cycles for hexadecimal devices or 2,000 cycles for decimal
	devices. A cycle is one 360° rotation.
Nominal Operating Torque:	0.006Nm
Contact Timing:	Nonshorting (break-before-make)

Materials & Finishes

Actuator:	Glass fiber reinforced polyamide
Housing:	Glass fiber reinforced polyamide (UL94V-0)
O-ring:	Nitrile butadiene rubber
Base:	Glass fiber reinforced polyamide (UL94V-0)
Movable Contact:	Beryllium copper with gold plating
Stationary Contacts:	Brass with gold plating
Terminals:	Brass with gold plating

Environmental Data

Tactiles	Environmental Data Operating Temperature Range: Humidity:	-25°C through +75°C (-13°F through +167°F) 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
+11+	Vibration: Shock:	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 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Touch	Processing Soldering:	Wave Soldering Recommended: See Profile B in Supplement section. Note: During Wave Soldering process, set the switch to the following position: NDFR10, NDFR16, NDKR10, NDKR16: 0 position;
Indicators	Cleaning:	NDFC10, NDKC10: 7 position; NDFC16, NDKC16: F position. Manual Soldering: See Profile B in Supplement section. Automated Cleaning. See Cleaning Specifications in Supplement section.
Accessories	Standards & Certifications Flammability Standards:	UL94V-0 rated housing & base The ND Series rotaries have not been tested for UL recognition or CSA certification.
Supplement		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.

Keylocks Programmable Illuminated PB Pushbuttons

Toggles

Rockers



Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Factiles

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Touch

Distinctive Characteristics

Sealed construction prevents contact contamination and allows automated soldering and cleaning. Sealed design accomplished with seals between the actuator and housing and between housing and base.

Highly visible legends and choice of screwdriver or shaft actuation to provide trouble-free code setting.

Detent mechanism designed for crisp, positive action for accurate switch setting.

Bifurcated, spring loaded contacts give unmatched logic-level reliability.

Heat tolerant resin used for body meets UL flammability rating of 94V-0 and maintains switch reliability through automated soldering process.

Crimped terminals ensure secure PC mounting and prevent dislodging during soldering.

.100" (2.54mm) terminal grid spacing between pin centers, plus 3-by-3 terminal arrangement for footprint pattern equivalent to industry standard.

Epoxy sealed terminals lock out flux, solvents, and other contaminants.

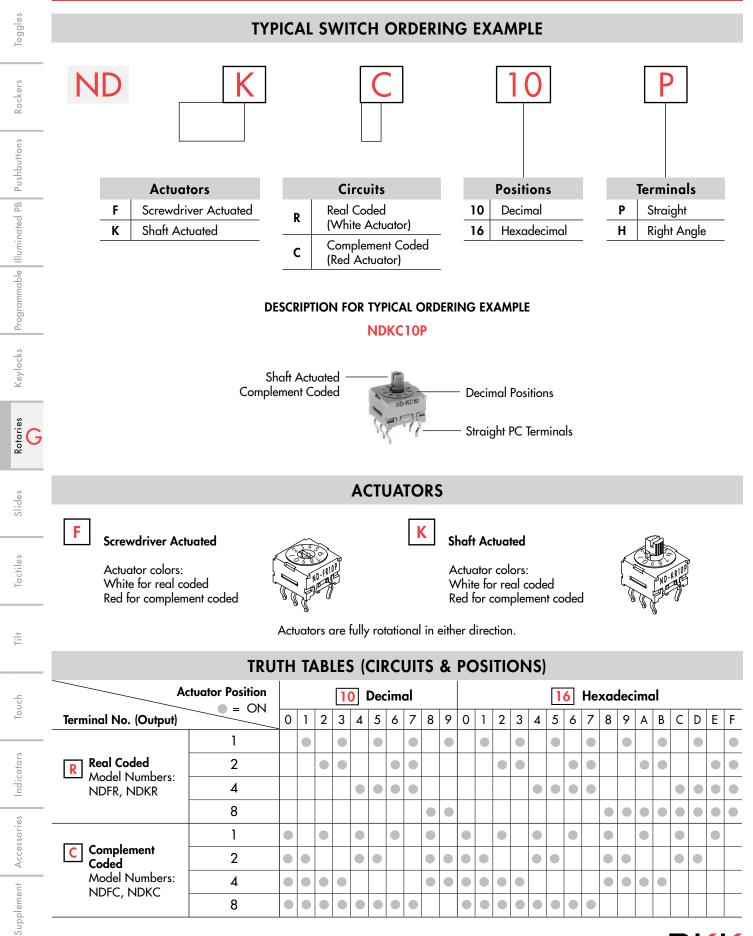




Actual Size



Series ND





Toggles

Rockers

Keylocks | Programmable | Illuminated PB | Pushbuttons

Slides

Tactiles

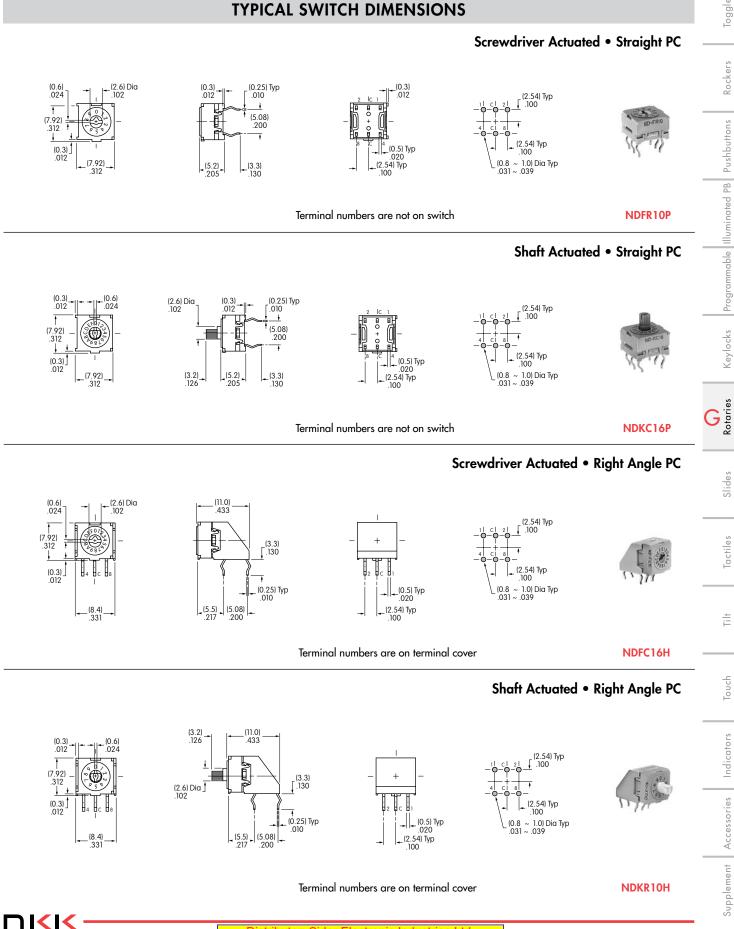
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Touch

Indicators

Supplement Accessories

CHES



Distributor: Sider Electronic Industries Ltd Tel: 852-23892522 Fax: 852-23574546 Email: info@sider.com.hk URL: www.sider.com.hk