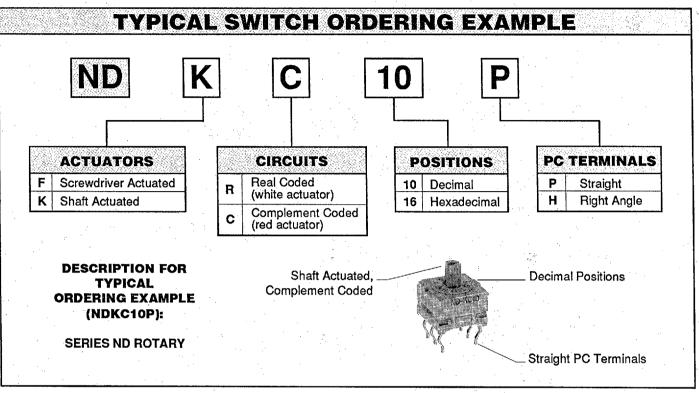
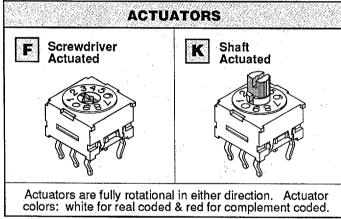
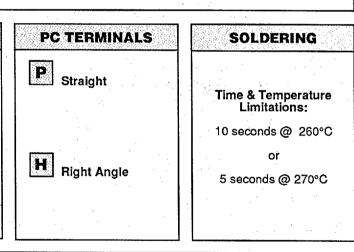
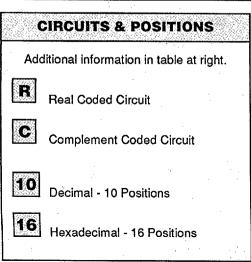
# THE SERIES ND ROTARY SWITCHES

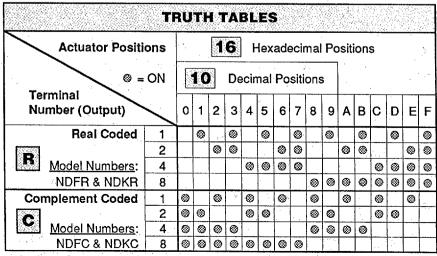
### MICRO-SUBMINIATURE/BINARY CODED/DIP ROTARY







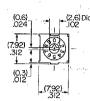


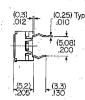


**DKK**® **WICHE** • 7850 E. Gelding Dr. • Scottsdale, AZ 85260 • Phone (602) 991-0942 • Fax (602) 998-1435 P

Screwdriver Actuated/Straight PC Terminals









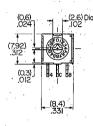
NDFR10P Model Shown

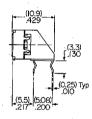
Terminal numbers not on switch.

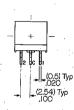


Screwdriver Actuated/Right Angle PC Terminals











NDFC16H Model Shown

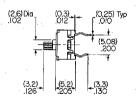
Terminal numbers on terminal cover.



Shaft Actuated/Straight PC Terminals











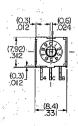
NDKC16P Model Shown

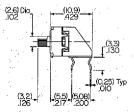
Terminal numbers not on switch.

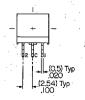


Shaft Actuated/Right Angle PC Terminals











NDKR10H Model Shown

Terminal numbers on terminal cover.

C10

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## MICRO-SUBMINIATURE/BINARY CODED/DIP ROTARY

A-25-31

### DISTINCTIVE FEATURES

Compact size and interlocking sides for high density. side-by-side mounting.

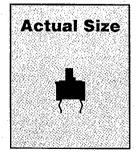
Sealed construction, prevents contact contamination and allows time- and money-saving automated soldering and washing.

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 fire resistance rating 94VO and maintains switch reliability through automated soldering process.



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

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

C7

# **ILLE SERIES ND ROTARY SWITCHES**

### MICRO-SUBMINIATURE/BINARY CODED/DIP ROTARY

### **GENERAL SPECIFICATIONS**

**Electrical Capacity:** (Resistive Load)

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

**Contact Resistance:** 

80 milliohms maximum (circuit) 30 milliohms maximum (contact point)

insulation Resistance:

1,000 megohms minimum @ 250V DC

Dielectric Strength:

250V AC minimum

Mechanical Life:

20,000 detent operations minimum

**Electrical Life:** 

20,000 detent operations minimum

Note: 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.

**Operating Torque:** 

50 grams-cm (0.70 ounce-in)

**Ambient Temp Range:** 

-25°C through +75°C (-13°F through +167°F)

MATERIALS & FINISHES	
Actuator	Glass fiber reinforced polyamide
Housing	Glass fiber reinforced polyamide (UL 94V-0 flammability rating)
O-ring	Nitrile butadiene rubber
Base	Glass fiber reinforced polyamide (UL 94V-0 flammability rating)
Movable Contact	Beryllium copper with gold plating over nickel
Stationary Contacts	Brass with gold plating over nickel
Terminals	Brass with gold plating over nickel

### APPLICATIONS

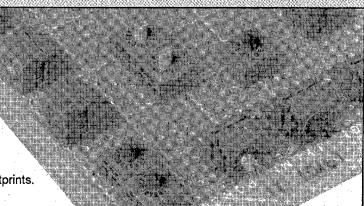
ND Series answers the ever expanding need for high reliability and versatility in many applications where digital setting is required: programming electronic equipment, in computer peripherals, as data entry devices for address encoding and presetting of microcomputers, as simple PROMs, or for selection of input-output boards.

These rotaries are offered with either screwdriver or shaft type actuators. Real or complement code setting is available with either decimal or hexadecimal positions, and straight or right angle PC terminals with gold contacts. Terminals are spaced to conform to standard .100" grid spacing. Both straight and right angle terminals are spaced .100" X .200" making them DIP socket compatible as well.

#### WASHABILITY & UNIVERSAL FOOTPRINT

Sealed construction of these DIP rotary switches is accomplished with seals between the actuator and housing and between the housing and base. Insert molded terminals also prevent entry of contaminants. These combined features make the ND models washable in automated processing techniques. (Alcohol based solvents are recommended.)

A standard footprint pattern with .100" terminal grid and 3-by-3 terminal arrangement match industry standard footprints.



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