

Distinctive Characteristics

Compact dimensions and low profile allow high density mounting and close stacking of PC boards.

Highly visible legends and choice of screwdriver, shaft or dial actuators with arrow position indication provide trouble-free code setting. Knob actuator also available.

Real or complement code setting identified by color-keyed actuator.

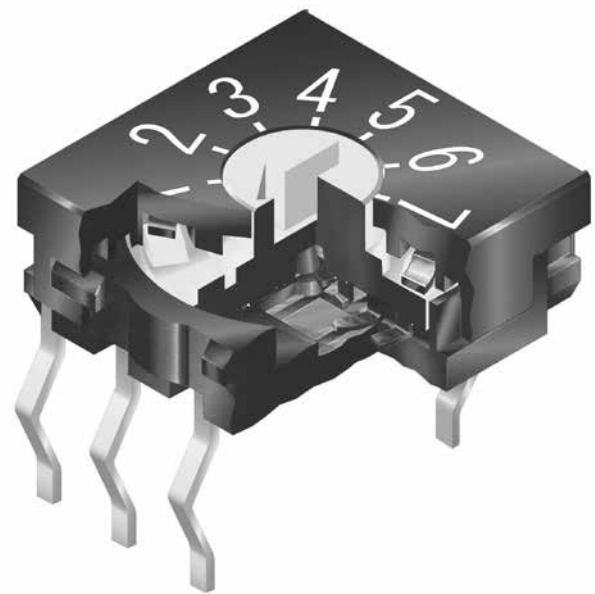
Detent mechanism gives crisp, positive action for accurate switch setting.

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

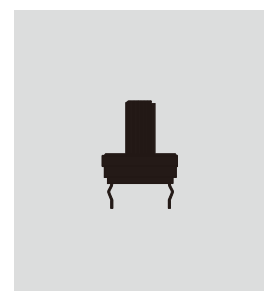
Cam activated movable contact and gold contacts assure contact reliability and continuity.

Surface mount model with screwdriver actuation available and shown in the surface mount section.

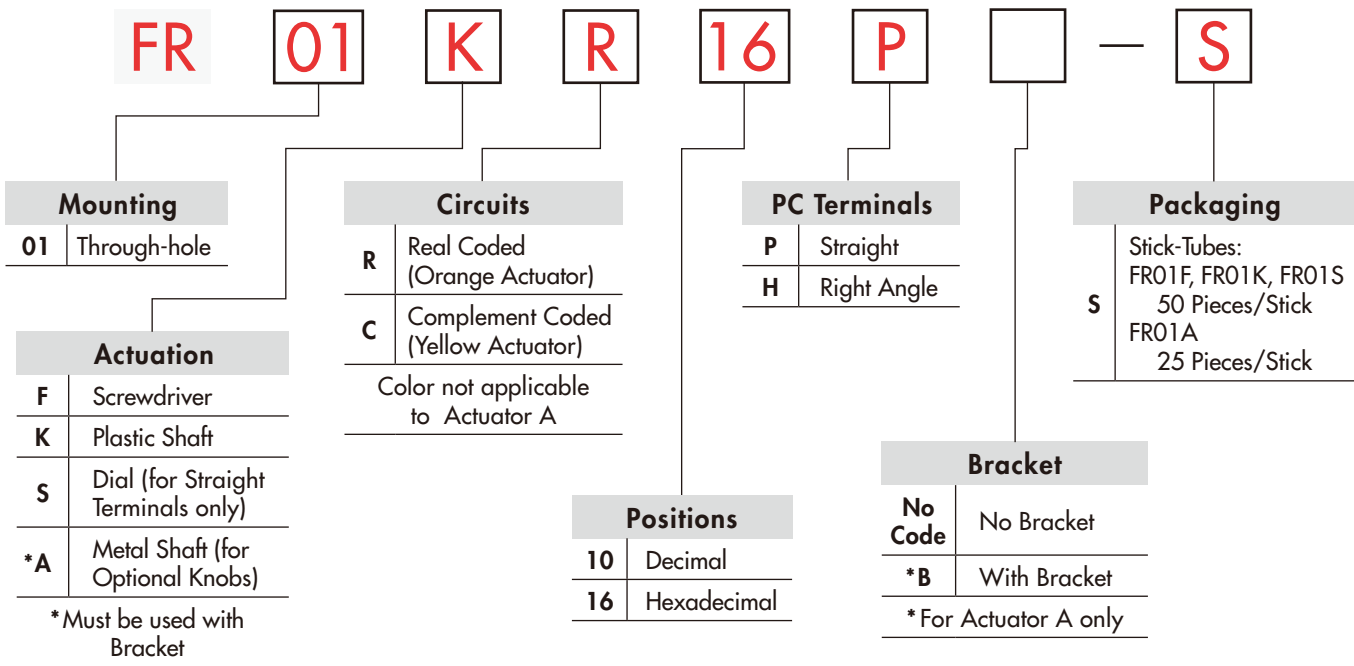
Contact factory for custom models with .200" (5.08mm) terminal spacing.



Actual Size

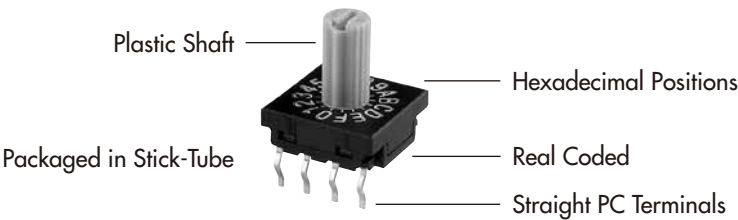


TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

FR01KR16P-S



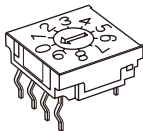
MOUNTING

01 Through-hole

ACTUATION

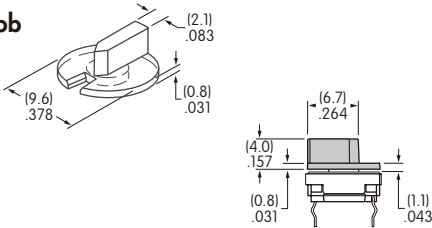
F Screwdriver

Adjusted with a flat tipped screwdriver



AT4180
Optional Snap-on Knob

Polyamide
Black knob with transparent flange



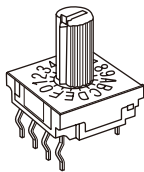
Actuators are fully rotational either clockwise or counterclockwise.
Actuator Colors: Orange for real coded devices; Yellow for complement coded devices.

Install knob before mounting on PCB for right angle type; it should not be removed once mounted. When mounting, align slit in knob with arrowhead on actuator.

ACTUATION

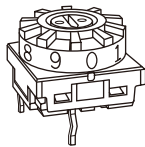
K Plastic Shaft

Adjusted by hand
or with flat tipped
screwdriver



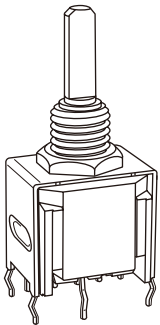
S Dial

Adjusted by hand
or with flat tipped
screwdriver



A Metal Shaft

Knob options
illustrated below
with color choices



Actuators are fully rotational and operate either clockwise or counterclockwise.
Colors for Actuators K and S: Orange for real coded devices; Yellow for complement coded devices

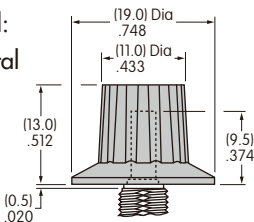
Mounting hardware is available if needed for models with Actuator A:
Hexagon Nut AT513M, Locking Ring AT515M, and Lockwasher AT509; all are shown in the Accessories and Hardware section.

OPTIONAL KNOBS FOR METAL SHAFT

AT433
Plain Black

Material:
Polyacetal

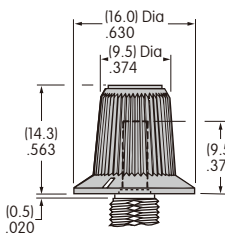
Color:
Black



AT4103 Small
Color Tipped

Polyester Base:
Black

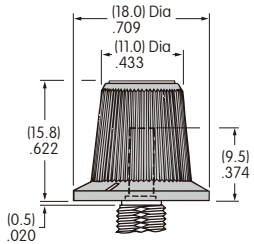
Polyamide Tip
Colors:
A, B, C, E, F, G, H



AT4104 Large
Color Tipped

Polyester Base:
Black

Polyamide Tip
Colors:
A, B, C, E, F, G, H



Knob Orientation: When installed with shaft flat rotated 180° from bushing flat as shown in "Typical Switch Dimensions," white line on cap points to Actuator Position 0 noted in truth tables below.

Color Codes: **A** Black **B** White **C** Red **E** Yellow **F** Green **G** Blue **H** Gray

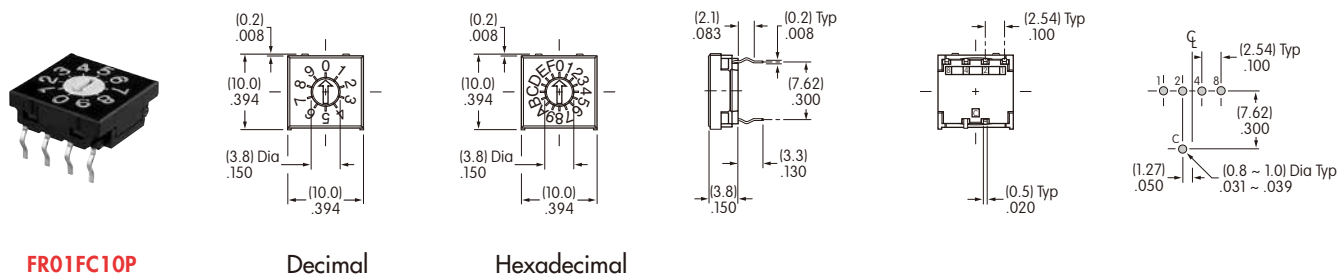
TRUTH TABLES (CIRCUITS & POSITIONS)

Actuator Position ● = ON		10 Decimal										16 Hexadecimal															
		0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
R Real Coded Model Numbers: FR01FR, FR01KR, FR01SR, FR01AR	1		●		●		●		●		●		●		●		●		●		●		●		●		●
	2			●	●			●	●					●	●			●	●				●	●			●
	4					●	●		●						●	●	●	●						●	●	●	●
	8									●	●									●	●	●	●	●	●	●	●
C Complement Coded Model Numbers: FR01FC, FR01KC FR01SC, FR01AC	1	●		●		●		●		●		●		●		●		●		●		●		●		●	
	2	●	●			●	●		●	●	●	●	●			●	●		●	●			●	●			
	4	●	●	●	●					●	●	●	●	●	●					●	●	●	●				
	8	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●									

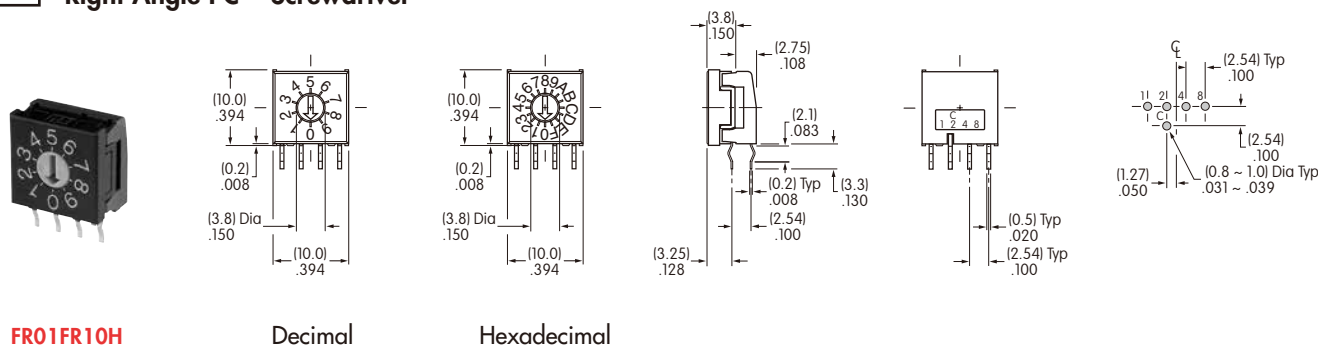
Terminal numbers are actually on the switch.
Above sequence shown for clockwise rotation.

TYPICAL SWITCH DIMENSIONS

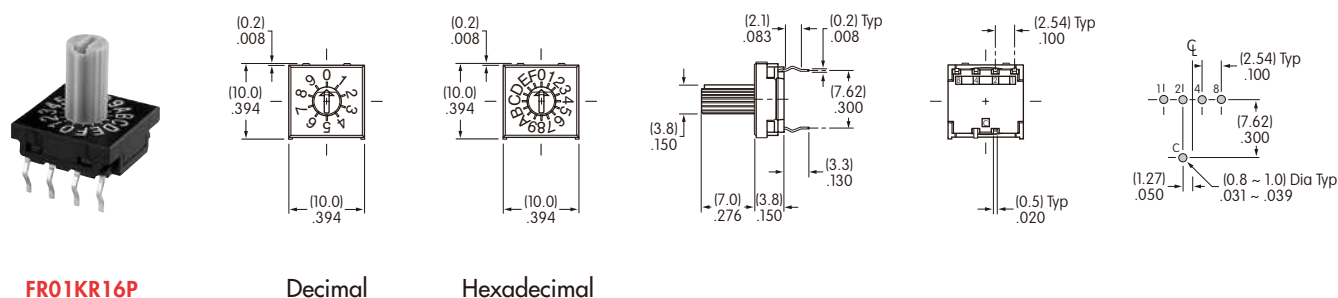
P Straight PC • Screwdriver



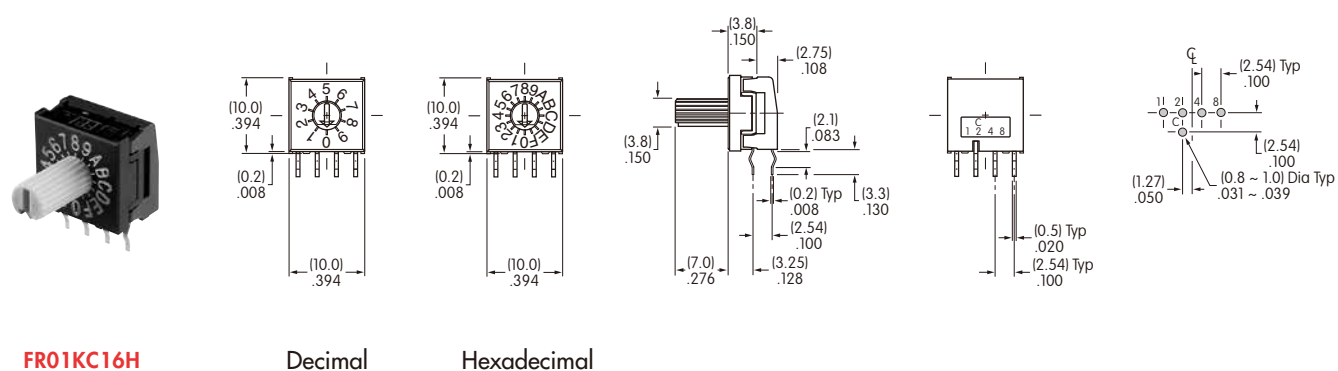
H Right Angle PC • Screwdriver



P Straight PC • Plastic Shaft



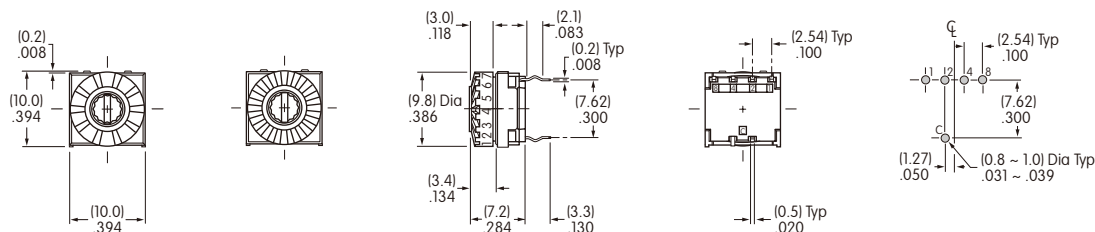
H Right Angle PC • Plastic Shaft



TYPICAL SWITCH DIMENSIONS

Straight PC • Dial

P



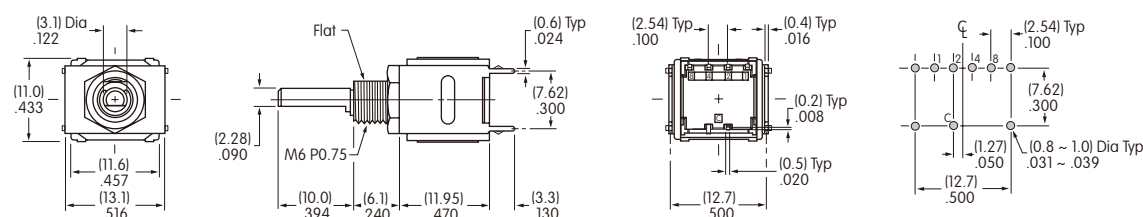
Decimal

Hexadecimal

FR01SR10P

Straight PC • Metal Shaft

P

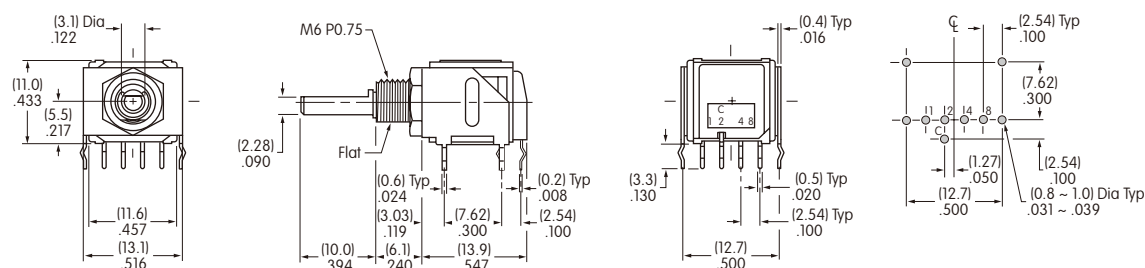


Shown in Position 0 with shaft flat rotated 180° from bushing flat

FR01AR10PB

Right Angle PC • Metal Shaft

H



Shown in Position 0 with shaft flat rotated 180° from bushing flat

FR01AC16HB

PACKAGING

S

Stick-Tube

FR01F, FR01K & FR01S

Each stick-tube contains 50 switches.
Switches must be ordered in 50-piece increments.

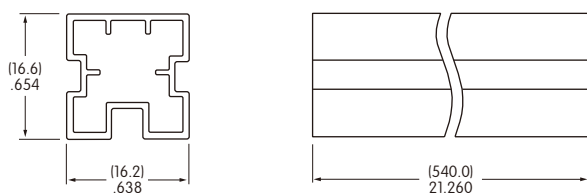
FR01A

Each stick-tube contains 25 switches.
Switches must be ordered in 25-piece increments.

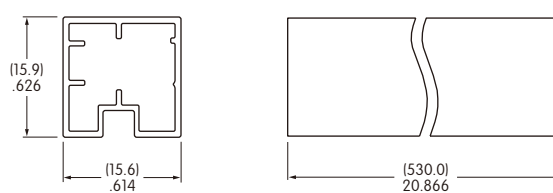
Note: Transport and storage temperatures should not exceed 50°C (122°F). Store stick tubes on flat surface.



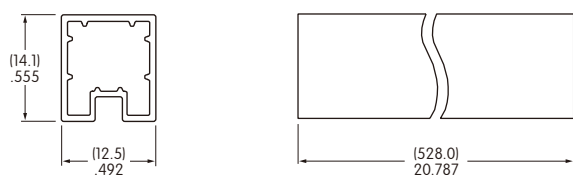
FR01F with Screwdriver Actuation & Straight PC



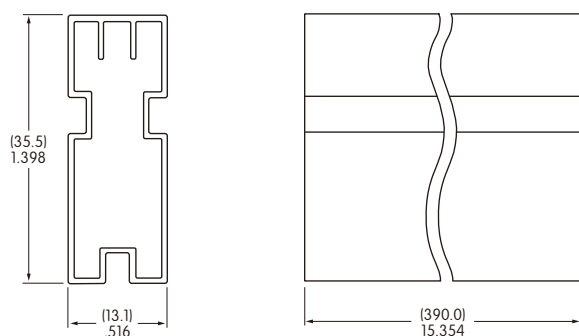
FR01K with Plastic Shaft & Right Angle PC



FR01S with Dial Actuation & Straight PC



FR01A with Metal Shaft & Straight PC



FR01A with Metal Shaft & Right Angle PC

