



Feature

1. Includes 2,3,4,5,6 detents.
2. Max 6 detents applicable to the rotary switch.

FSR10-01 Series Rotary switch

Electrical characteristics

- Rating.....0.1A,DC 16V
- Initial contact resistance.....50m Ω Max
- Insulated resistance.....100M Ω min at 100V DC
- Withstand Voltage.....AC 100V for 1 minute
- Operating temperature range.....-30°C~+85°C

Mechanical characteristics

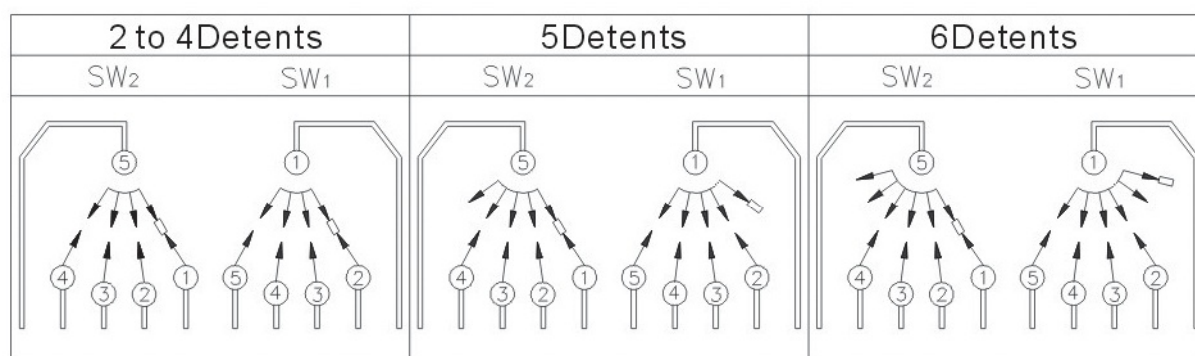
- Terminal strength..... 510gf (5N) for 1 minute
- Stopper strength..... 5.1Kgf.cm Min
- Changeover Angle..... $30\pm 3^\circ$
- Wobble of shaft..... 0.17mm Max
(measure from 10mm mounting surface)
- Detent torque..... 408 ± 204 gf.cm
- Number of detents..... $\square 2C, \square 3C, \square 4C, \square 5C, \square 6C$
- Push-pull strength.....Push: 10.2Kgf max. for 10S
Pull: 10.2Kgf max

Durability

- Rotational Life.....10,000 Cycles Min
- Soldering Condition.....Manual soldering:350°C $\pm 10^\circ$ C,3Sec.

- Humidity..... $40\pm 2^{\circ}\text{C}$ 90~95% RH for 96 hours, CR is 150m Ω Max
- Dry heat for long term..... $85\pm 2^{\circ}\text{C}$ for 96 hours, CR is 150m Ω Max
- Cold..... $-20\pm 2^{\circ}\text{C}$,for 96 hours, CR is 150m Ω Max
- Temperature cycles..... $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$,5 cycles

Circuit diagram



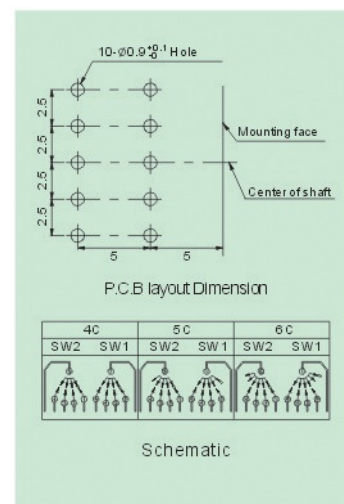
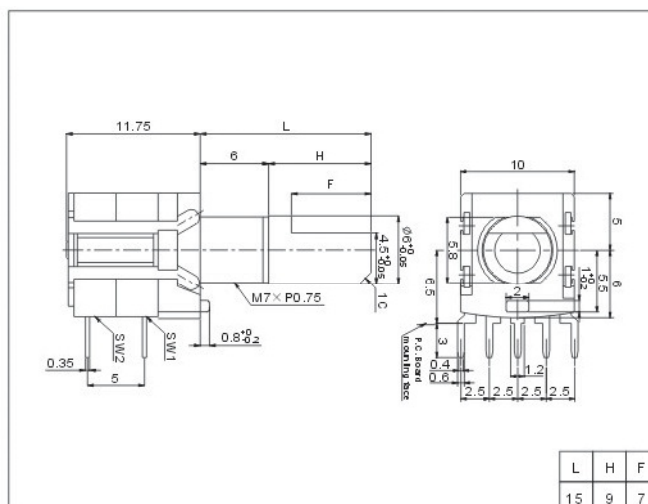
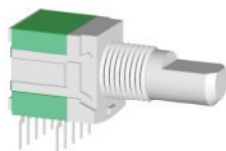
Note:

- 1.Circuit steps are detents 2 to 5 at Sw1 and detents 1 to 4 at Sw2 for 5 detents switch.
- 2.Circuit steps are detents 3 to 6 at Sw1 and detents 1 to 4 at Sw2 for 6 detents switch.
- 3.The switch of 5 and 6 detents must be required external wiring to common terminal.
- 4.For detent 2 to 4,1 section of 2 poles.
- 5.For detent 5 and 6,1 section consists of 1 poles.
- 6.Dummy terminals.

Number of detents Item	2	3	4	5	6
Sw1	(4) (5)	(5)	/	/	/
Sw2	(3) (4)	(4)	/	/	/

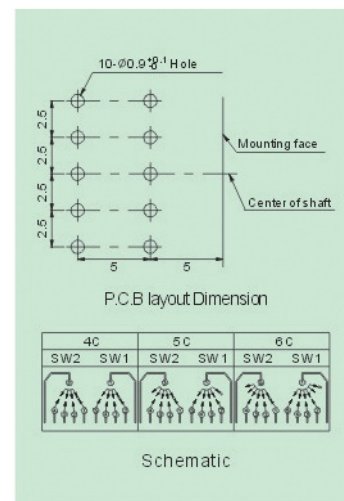
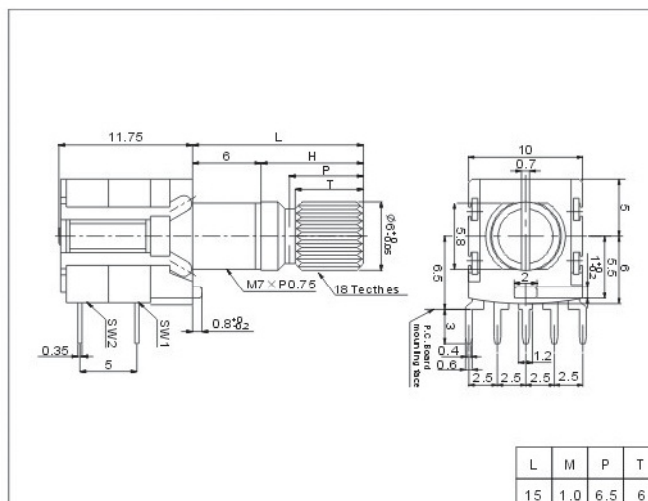
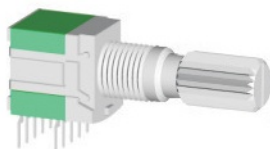
FSR10-01

Vertical Type, Dual Unit,
Type of "F" Shaft



FSR10-01

Vertical Type, Dual Unit,
Type of "KQ" Shaft





Feature

1. Rotary pulse switch with 20 pulse.
2. Long life 30,000 cycles min.

FSR10-02 Series Rotary pulse switch

Electrical characteristics

- Rating.....0.1A, DC 16V
- Contact Resistance.....50m Ω Max
- Insulation Resistance.....More than 100M Ω at DC 100V
- Withstand Voltage.....AC 100V for 1 minute

Mechanical characteristics

- Total Rotational Angle.....360° Continuous
- Resistance to soldering heat.....260° $\pm$ 5C°, 5Sec. Max
- Rotational Torque.....70~230gf.cm
- Changeover Angle.....18° $\pm$ 3°
- Shaft wobble.....0.17mm Max.
- Push-Pull Strength.....Pull: 10.2Kgf Max; Push: 10.2Kgf Max.
- Number of detents(click).....20 detent

Durability

- Operating temperature range.....-30°C~+85°C
- Rotational Life.....30,000 Cycles Min, CR is 150m Ω Max
- Cold.....-30 $\pm$ 2°C for 96 hours, CR is 150m Ω Max
- Dry heat.....85 $\pm$ 2°C for 96 hours, CR is 150m Ω Max
- Damp heat.....40 $\pm$ 2°C, 90~95% RH for 96 hours, CR is 150m Ω Max

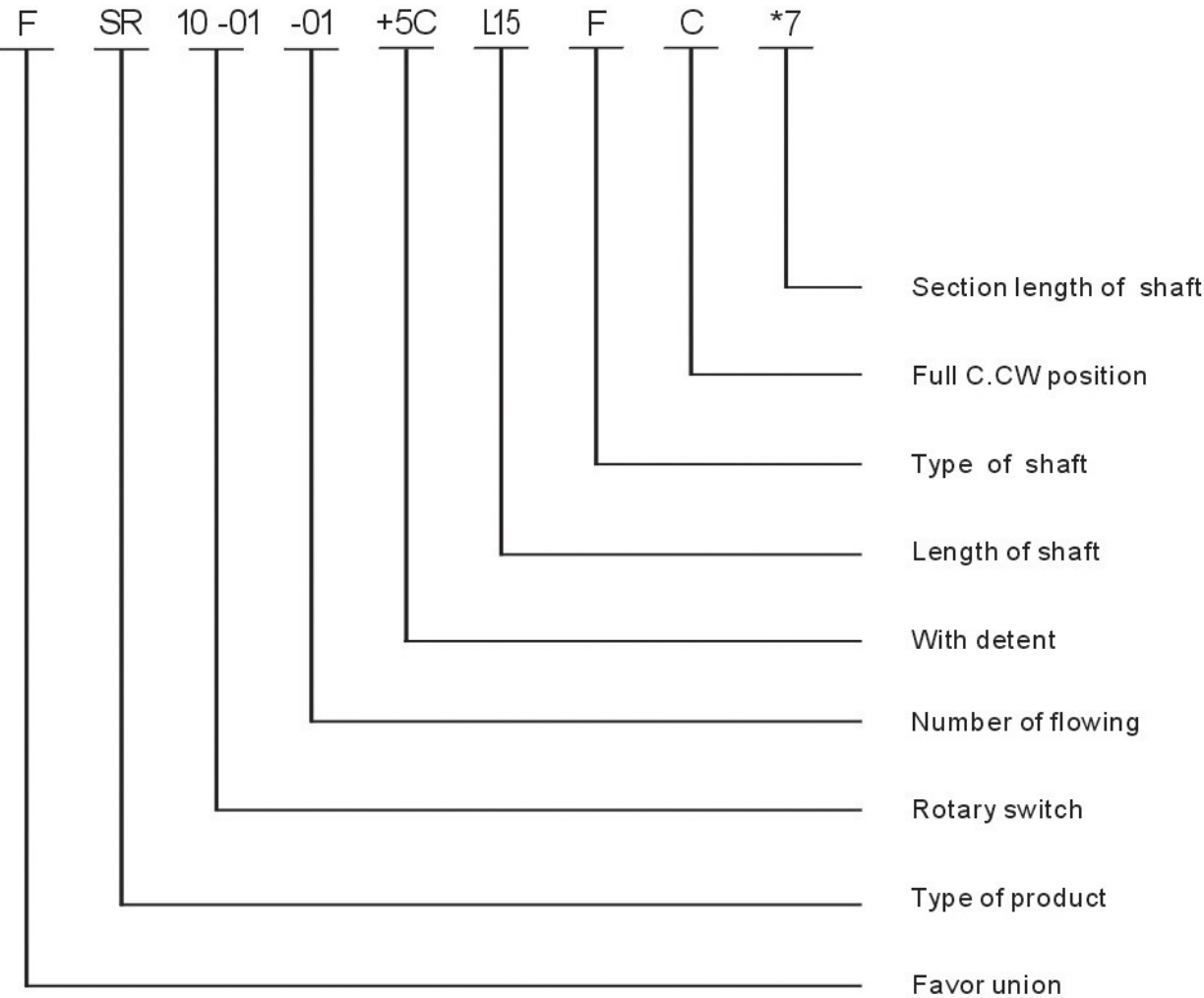


FSR10-02 Series

Rotary Switch



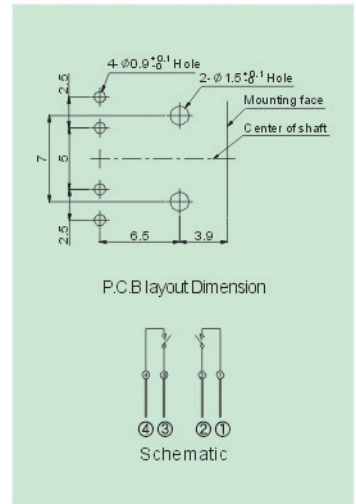
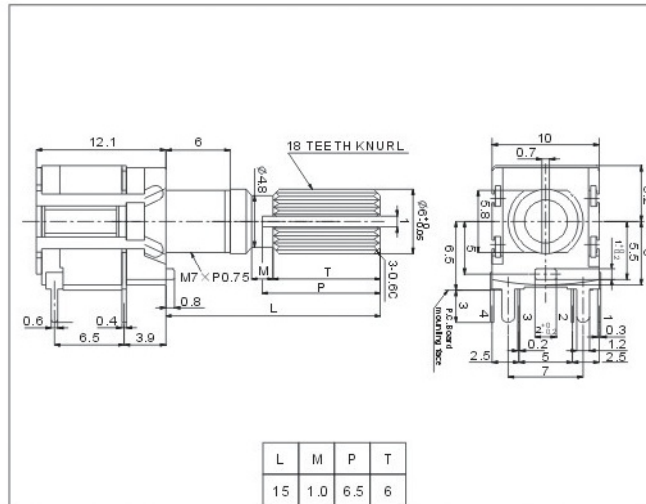
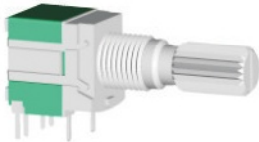
HOW TO ORDER



Switch

FSR10-02

Vertical Type, Single Unit,
Type of "KQ" Shaft



FSR10-02

Vertical Type, Single Unit,
Type of "F" Shaft

