



### Feature -

- encoder: 18 pulse scroller output, and one key center output
- VR: 14 position scroller output, and one key center output
- bi-color LED illuminated available

### Application -

- audio / video equipments
- consumer products
- computer products
- instrumentation
- communication equipments
- home appliances

## SPECIFICATIONS

SWITCH SPECIFICATIONS							
POLE - POSITION		One-Chanel					
CIRCUIT FEATURE		Capacitive analog signal					
OPERATING TEMPERATURE RANGE		-20°C ~ 70°C					
SEALING		PANEL SEALED TO IP67					
ELECTRICAL CHARACTERISTICS							
Symbol	Parameter	Test Conditions		MIN.	TYP.	MAX.	Units
		V <sub>DD</sub>	Conditions				
V <sub>CC</sub>	Input Voltage	-	-	4.5	5.0	5.5	V
V <sub>DD</sub>	Operating Voltage	-	-	3.0	3.3	3.6	V
I <sub>DD</sub>	Operating Voltage - No Load	3.3V	3.3V	2	3	5	mA
V <sub>OH</sub>	Output High Voltage	3.3V	I <sub>OH</sub> = - 4.0mA	2.1	-	-	V
V <sub>OL</sub>	Output Low Voltage	3.3V	I <sub>OH</sub> = 8.0mA	-	-	0.9	V
V <sub>IL</sub>	Input ports	3.3V	-	-	200	-	Hz

LED SPECIFICATIONS							
ATTENTION (+) (-) LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color				
			Ultra Blue	Ultra Green	Ultra Red	Ultra Yellow	
FORWARD CURRENT	I <sub>f</sub>	mA	30	30	50	30	
REVERSE VOLTAGE	V <sub>r</sub>	V	5	5	5	5	
REVERSE CURRENT	I <sub>r</sub>	μA	10	10	10	10	
FORWARD VOLTAGE@20mA	V <sub>f</sub>	V	3.7~4.0	3.5~4.0	2.0~2.6	2.1~2.6	
LUMINOUS INTENSITY@20mA	I <sub>v</sub>	mcd	150	1000	800	350	

Physical and electrical information of LED will be provided upon customer's request on switches .

## HOW TO ORDER

