



### 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

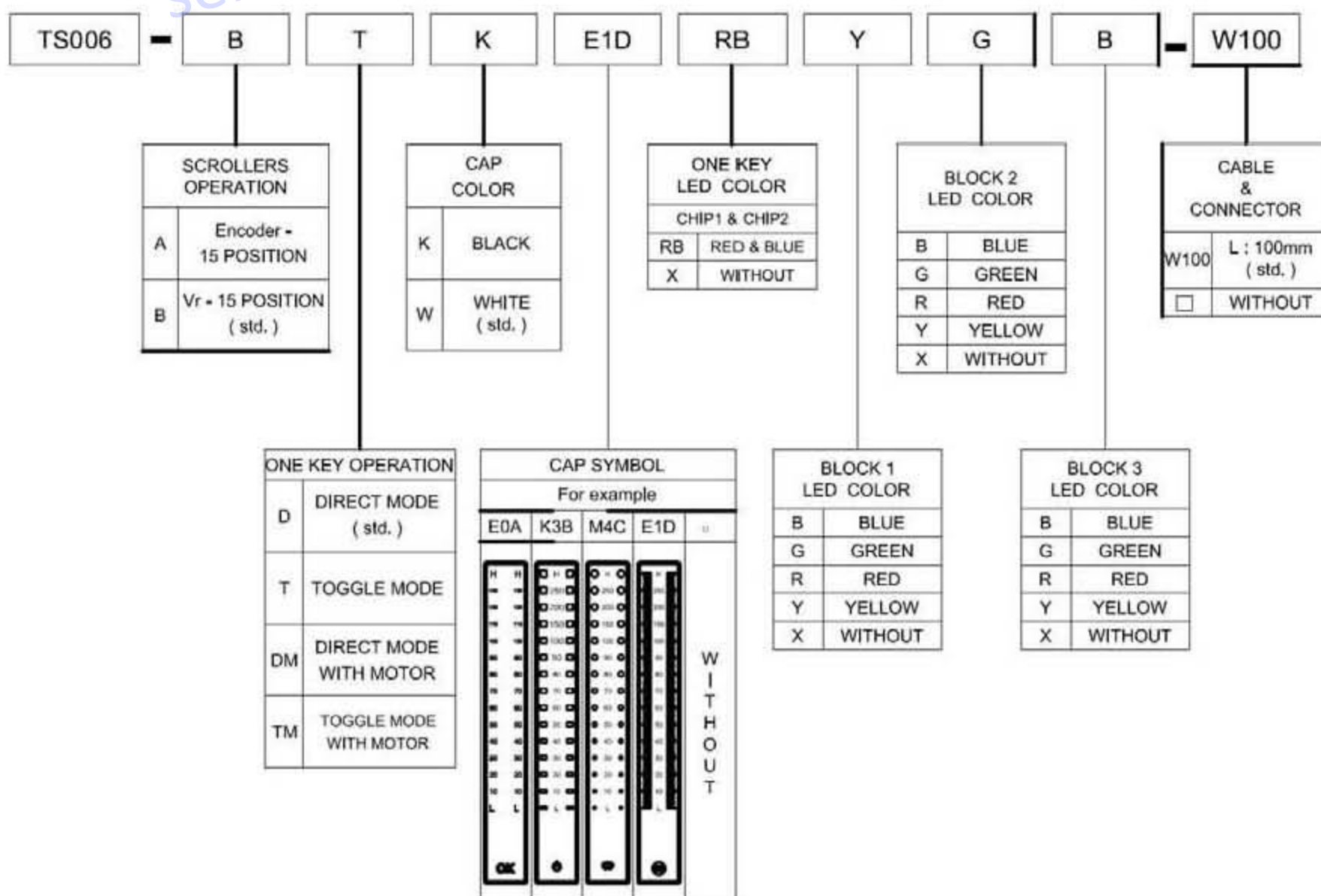
## ► SPECIFICATIONS

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>OL</sub> = 8.0mA	-	-	0.9	V
V <sub>L</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



# TS006 Series LED Touch Fader

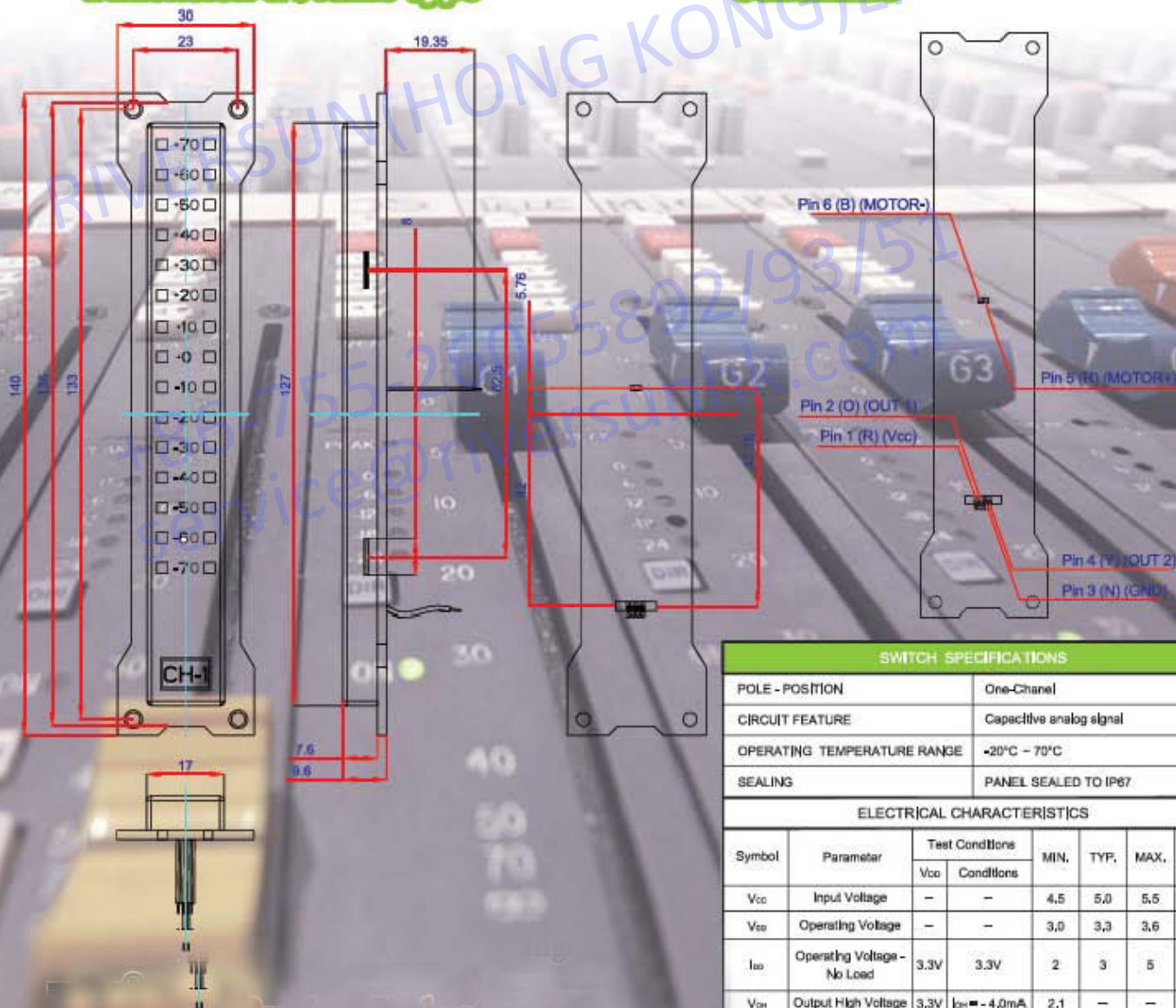
## Feature / 特色

- LED Touch Fader
- 15 Pulse Scroller Output, and One Key Output
- Vibration available
- 照光式タッチセンサフェーダー
- 15パルスのスクロール出力
- 振動機能



## Dimension & Frame Type

## Schematic



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SEALING	PANEL SEALED TO IP67						
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Symbol	Parameter	Test Conditions		MIN.	TYP.	MAX.	Units
		V <sub>cc</sub>	Conditions				
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V <sub>cc</sub>	Operating Voltage	-	-	3.0	3.3	3.6	V
I <sub>cc</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>OL</sub> = 8.0mA	-	-	0.9	V
V <sub>L</sub>	Input ports	3.3V	-	-	200	-	Hz