

Feature :

Encoder Operation Mode: 15 position output  
VR Operation Mode: 15 position output  
One key output other than the scroller output  
Bi-color LED illuminated available

**Application :**

Audio / video equipments  
Consumer products  
Computer products  
Communication equipments  
Home appliances

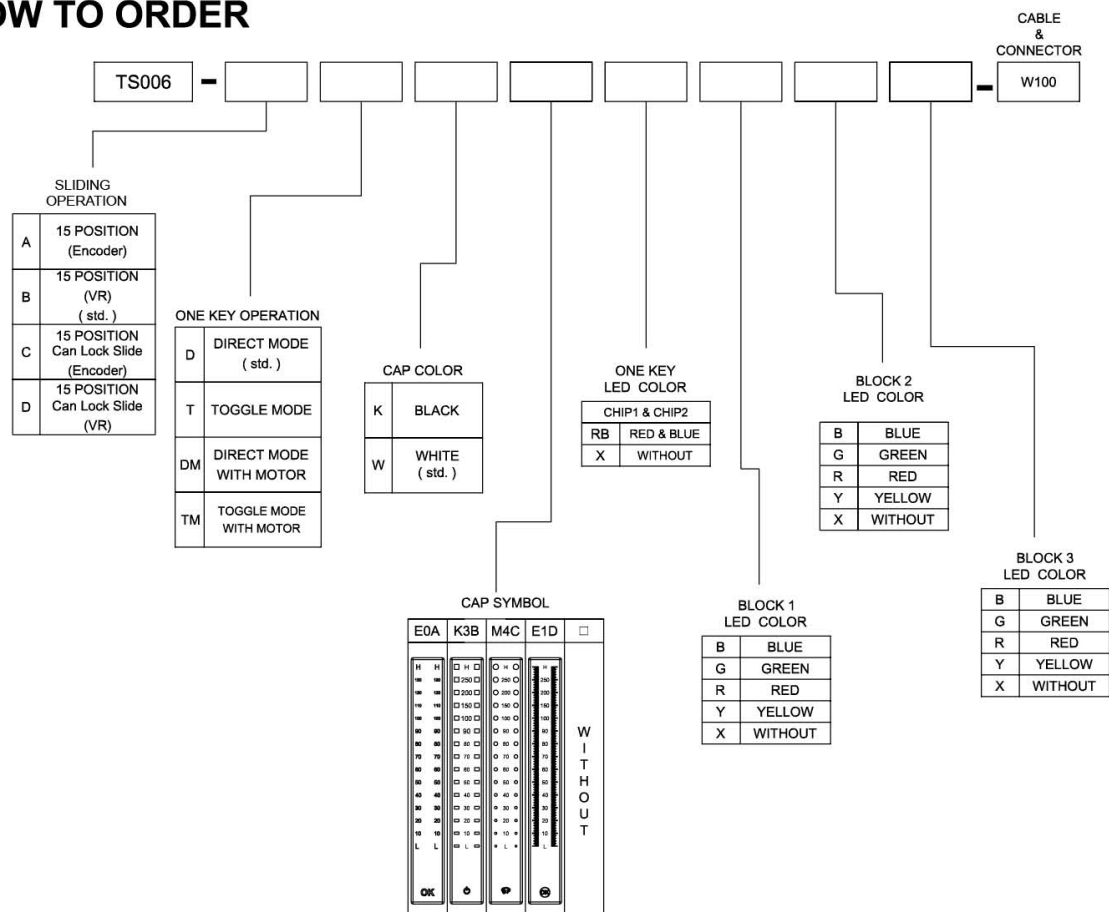


| SWITCH SPECIFICATIONS       |                                |                 |                           |      |      |      |       |
|-----------------------------|--------------------------------|-----------------|---------------------------|------|------|------|-------|
| POLE - POSITION             |                                |                 | Two-Channel               |      |      |      |       |
| CIRCUIT FEATURE             |                                |                 | Capacitive PWM signal     |      |      |      |       |
| OPERATING TEMPERATURE RANGE |                                |                 | -20°C ~ 70°C              |      |      |      |       |
| ELECTRICAL CHARACTERISTICS  |                                |                 |                           |      |      |      |       |
| Symbol                      | Parameter                      | Test Conditions |                           | MIN. | TYP. | MAX. | Units |
|                             |                                | V <sub>DD</sub> | Conditions                |      |      |      |       |
| V <sub>CC</sub>             | Input Voltage                  | -               | -                         | 0    | -    | 28   | V     |
| V <sub>DD</sub>             | Operating Voltage              | -               | -                         | 2.8  | 5.0  | 5.5  | V     |
| I <sub>DD</sub>             | Operating Voltage -<br>No Load | 3.3V            | 3.3V                      | -    | 2    | 3    | 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                                                                                                                                                                 |      |                   |            |     |        |        |       |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|------------|-----|--------|--------|-------|----------|
|  <p>ATTENTION<br/>LEDs are Electrostatic<br/>Sensitive devices</p> <p>(+) ○ — (⊕) — (○) — (-)</p> | Unit | Value / LED Color |            |     |        |        |       |          |
|                                                                                                                                                                                    |      | Blue              | Pure Green | Red | Yellow | Orange | Green | White    |
| LUMINOUS INTENSITY@20mA<br>I <sub>v</sub>                                                                                                                                          | mod  | 150               | 1000       | 800 | 350    | 700    | 300   | 300-1500 |
| Dominant Wavelength<br>λ <sub>D</sub>                                                                                                                                              | nm   | 470               | 525        | 630 | 590    | 601    | 570   | /        |
| FORWARD VOLTAGE@20mA<br>V <sub>f</sub>                                                                                                                                             | V    | 3.7               | 3.5        | 2   | 2.1    | 2.1    | 2.1   | 3.5      |

■ A single bin cannot be ordered, please contact us in advance if you need a particular bin sorting before placing your order to clarify the lead time, MOQ and pricing

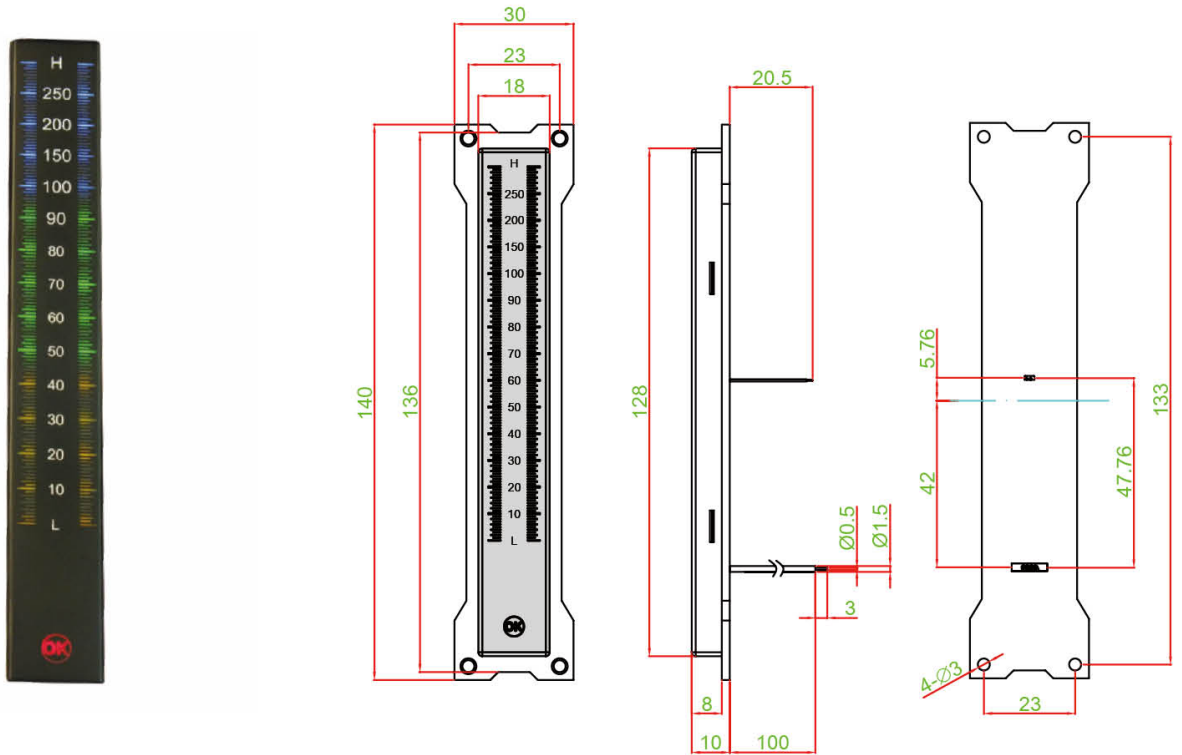
## HOW TO ORDER



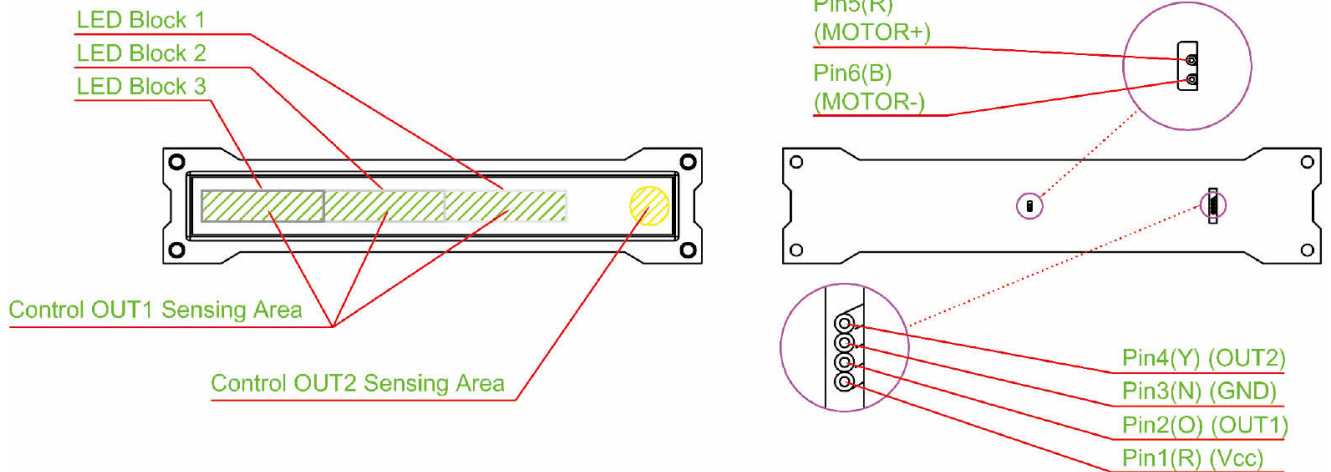


## DIMENSION

• TS0006-BTMKE1DRBYGB-W100



## CIRCUIT



## PANEL CUT OUT

