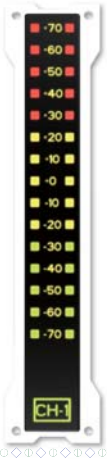


Feature -

- encoder : 15 pulse scroller output, and one key center output
- VR : 15 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-Channel
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_{DD}	Conditions				
V_{CC}	Input Voltage	–	–	0	–	28	V
V_{DD}	Operating Voltage	–	–	2.8	5.0	5.5	V
I_{DD}	Operating Voltage - No Load	3.3V	3.3V	–	2	3	mA
V_{OH}	Output High Voltage	3.3V	I_{OH} = - 4.0mA	2.1	–	–	V
V_{OL}	Output Low Voltage	3.3V	I_{OH} = 8.0mA	–	–	0.9	V
V_{IL}	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	If	mA	20	20	20	20
REVERSE VOLTAGE	Vr	V	5	5	5	5
REVERSE CURRENT	Ir	μA	10	10	10	10
FORWARD VOLTAGE@20mA	Vf	V	3.7~4.0	3.5~4.0	2.0~2.6	2.1~2.6
LUMINOUS INTENSITY@20mA	Iv	mcd	150	1000	800	350

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

▶ HOW TO ORDER

TS006 – B T K E1D RB Y G B – W100

B – SCROLLERS OPERATION

A	Encoder - 15 POSITION
B	Vr - 15 POSITION (std.)

T – ONE KEY OPERATION

D	DIRECT MODE (std.)
T	TOGGLE MODE
DM	DIRECT MODE WITH MOTOR
TM	TOGGLE MODE WITH MOTOR

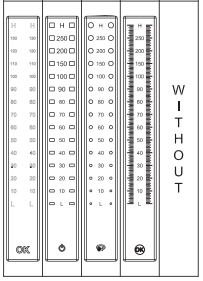
K – CAP COLOR

K	BLACK
W	WHITE (std.)

E1D – CAP SYMBOL

For example

E0A K3B M4C E1D □



RB – ONE KEY LED COLOR

CHIP1 & CHIP2

RB	RED & BLUE
X	WITHOUT

Y – BLOCK 1 LED COLOR

B	BLUE
G	GREEN
R	RED
Y	YELLOW
X	WITHOUT

G – BLOCK 2 LED COLOR

B	BLUE
G	GREEN
R	RED
Y	YELLOW
X	WITHOUT

B – BLOCK 3 LED COLOR

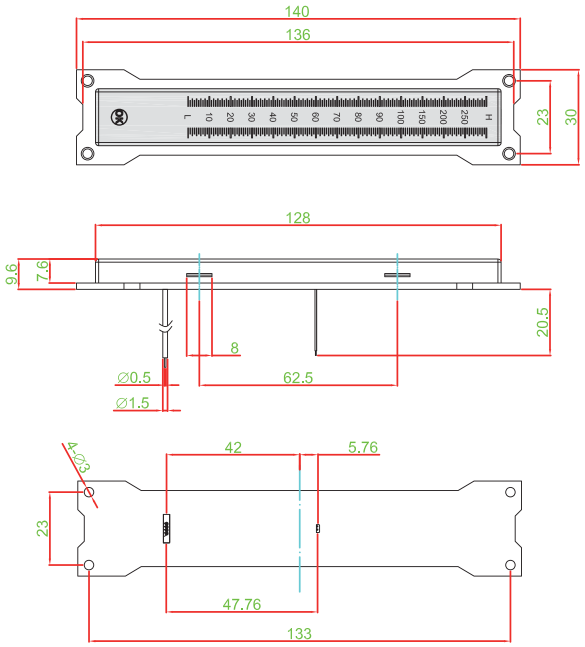
B	BLUE
G	GREEN
R	RED
Y	YELLOW
X	WITHOUT

W100 – CABLE & CONNECTOR

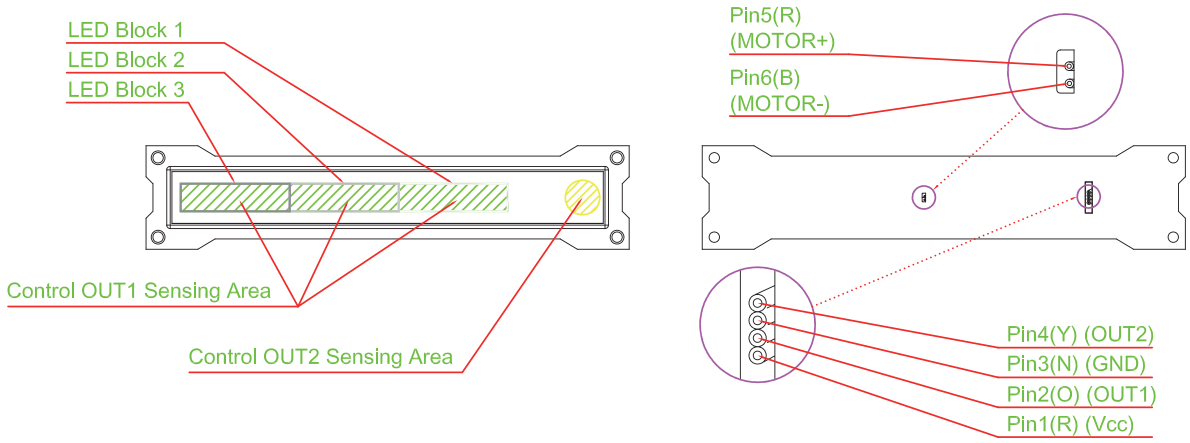
W100	L : 100mm (std.)

DIMENSION & FRAME TYPE

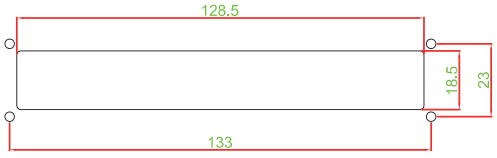
TS006-BTMKE1DRBYGB-W100



CIRCUIT



MATERIAL

- COVER : PC
- HOUSING : PA
- BASE FRAME : PA + GF
- P.C.B : FR4

PANEL CUT OUT & CIRCUIT DIAGRAM