



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-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	—	—	4.5	5.0	5.5	V
V _{DD}	Operating Voltage	—	—	3.0	3.3	3.6	V
I _{DD}	Operating Voltage - No Load	3.3V	3.3V	2	3	5	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						
		Unit	Value / LED Color			
			Ultra Green	Ultra Yellow	Ultra Red	
FORWARD CURRENT		I _f	mA	20	20	20
REVERSE VOLTAGE		V _r	V	5.0	5.0	5.0
REVERSE CURRENT		I _r	μA	10	10	10
FORWARD VOLTAGE@20mA		V _f	V	2.1-2.5	2.0-2.5	2.0-2.5
LUMINOUS INTENSITY@20mA		I _v	mcd	60	120	150

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

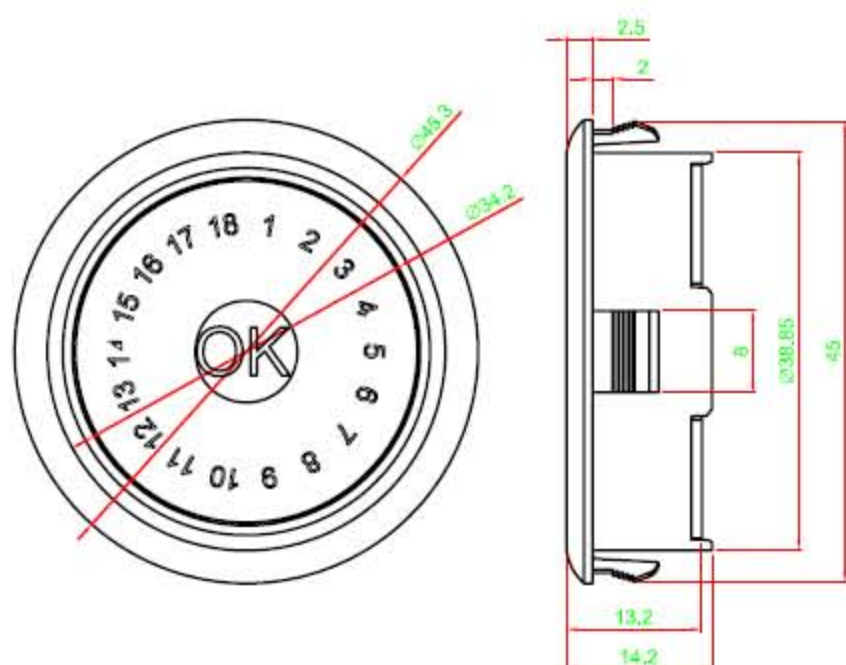
► **HOW TO ORDER**

TS005	-	B	T	K	K	301	B	GR	O	-	W100
		ONE KEY OPERATION		CAP COLOR		BLOCK 1 LED COLOR		BLOCK 3 LED COLOR (for B Type)			
		D	DIRECT MODE (std.)			B	BLUE	B	BLUE		
		T	TOGGLE MODE			G	GREEN	G	GREEN		
		DM	DIRECT MODE WITH MOTOR			R	RED	R	RED		
		TM	TOGGLE MODE WITH MOTOR			W	WHITE	W	WHITE		
						Y	YELLOW	Y	YELLOW		
						O	ORANGE	O	ORANGE		
						X	WITHOUT	X	WITHOUT		
		SCROLLERS OPERATION		HOUSING COLOR		CAP SYMBOL		BLOCK 2 LED COLOR		CABLE & CONNECTOR	
		A	Encoder - 18 POSITION			For example		CHIP1 & CHIP2			
		B	Vr - 14 POSITION (std.)			201	Block 1 : 1~18 Block 2 : OK	BR		W100	
		A1	Encoder - 14 POSITION			301	Block 1 : → Block 2 : OK Block 3 : Wellbuying	GR		L : 100mm (std.)	
		B1	Vr - 14 POSITION				WITHOUT	YR			
								RG			
								X			

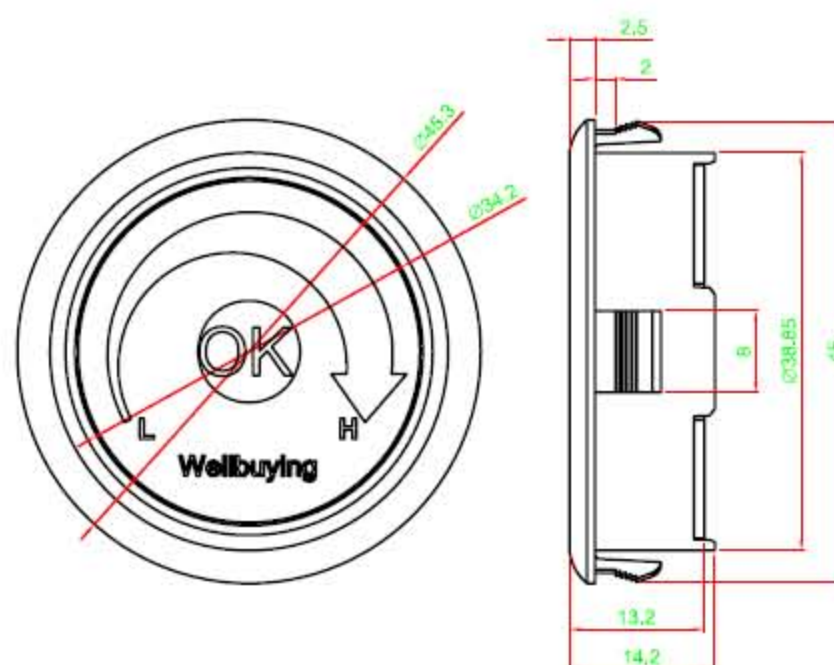


▶ DIMENSION & FRAME TYPE

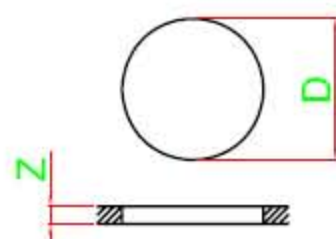
TS005 - AKK201BGRX-W100



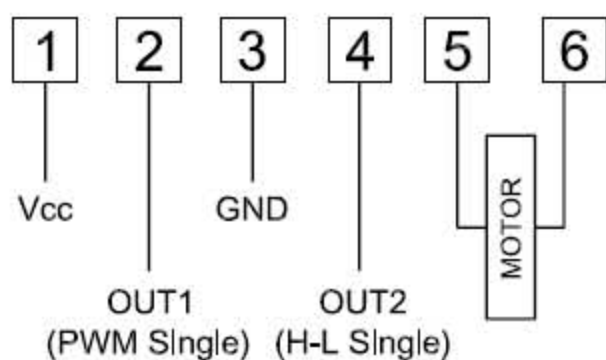
TS005 - BKK301BGRO-W100



▶ PANEL CUT OUT & CIRCUIT DIAGRAM



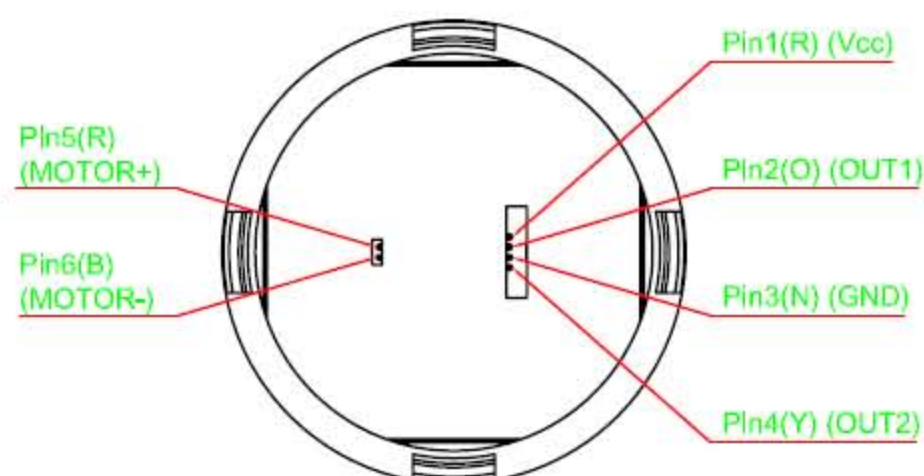
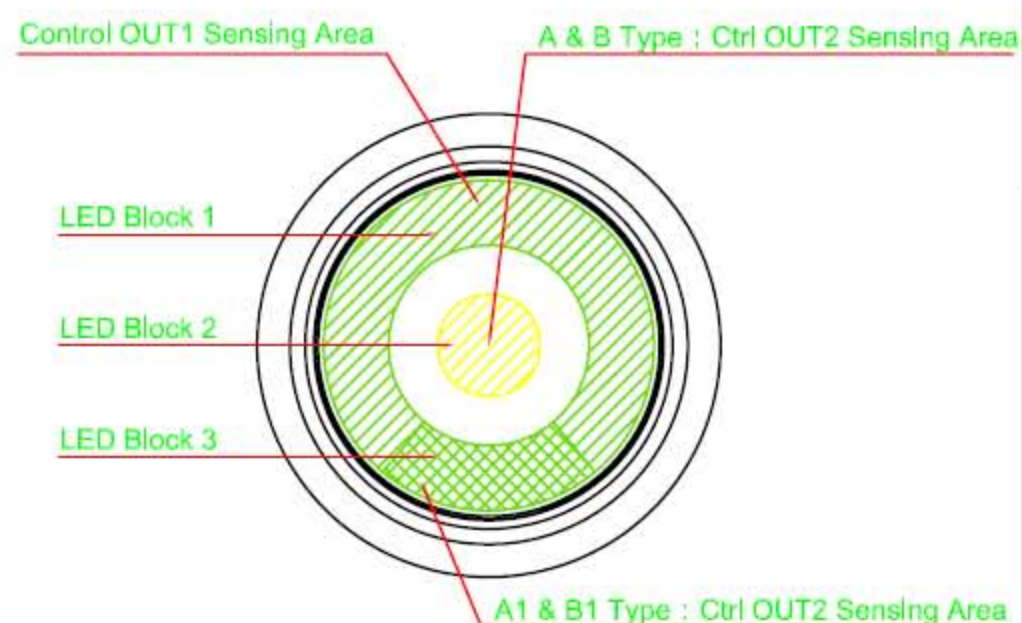
Z	D
1.0 ~ 2.0	33.1~33.3
2.0 ~ 2.5	33.3~33.7
2.5 ~ 3.0	33.7~34.0



▶ MATERIAL

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

▶ SCHEMATIC



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Well Buying:

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