

ROTARY SWITCHES



AN SERIES

SPECIFICATIONS

Operating Force

Rotation - Max.50 gf-cm

Push - 220 ± 40 gf

Contact Resistance (initial)

Max. 300 mΩ

Measured by ohm meter - open voltage < 1VDC, driver current -100 mA

Insulation Resistance (at 100 VDC/min.)

Min. 100 MΩ

Operating Temperature Range

0°C to 40°C (with no icing)

Vibration

10~55 Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Rotation - Min. 200,000 operations

C.W. 100,000 & C.C.W 100,000 operations

Push - Min. 1,000,000 operations

Electrical Operating Frequency

Rotation - 30 operations per minute

Push - 120 operations per minute

RATING

1mA 10VDC

APPLICATIONS

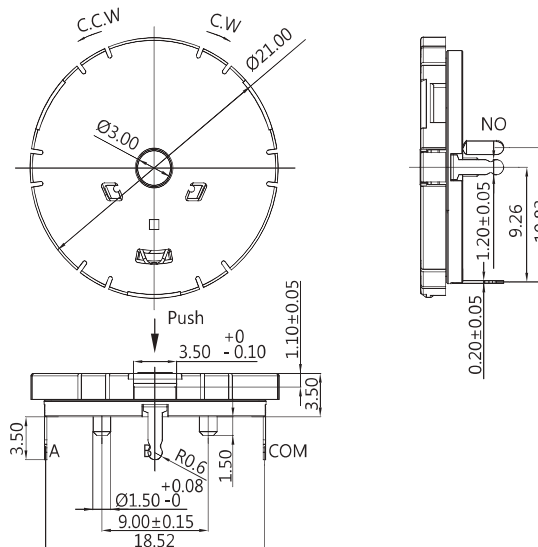
Remote control, Tablet, Keyboard, Audio, Mp3 player, Notebook,
Mobile phone, Mobility TV, Home appliances

ORDERING INFORMATION

A	N	—	P	1	S	—	2	S	P	—	Z	
S E R I E S P R E F I X		C O D E	R A T I N G C U R R E N T	C O D E	O P E R A T I N G F O R C E	C O D E	T Y P E	C O D E	O P E R A T I N G T O R Q U E	C O D E	T E R M I N A L T Y P E	R O H S C O D E
		P1	1mA 10VDC	S	Rotation Max.50gf-cm	2	COVER IS NOT THROUGH Rotation Life :200,000 operations (C.W. 100,000 & C.C.W 100,000operations)	S	Push 220±40gf	P	PCB TERMINAL	
				H	Rotation Max.60gf-cm	3	COVER IS NOT THROUGH Rotation Life :2,000,000 operations (C.W. 1,000,000 & C.C.W 1,000,000operations)					

DIMENSIONS

Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



CONTACT CONFIGURATION

Push



Rotation

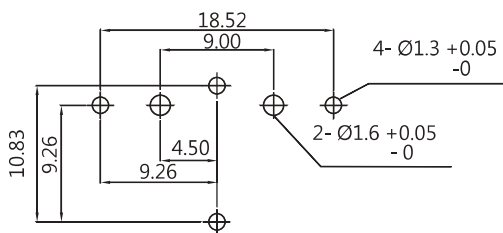
NO.	ANGLE							
		-90°	-60°	-30°	0°	30°	60°	90°
A-A	ON							
	OFF							
B-B	ON							
	OFF							

CW ← → CCW

Numbers of detent : 24

Pulse/Rotation : 12 pulse/360°

MOUNTING HOLES



ROTARY SWITCHES

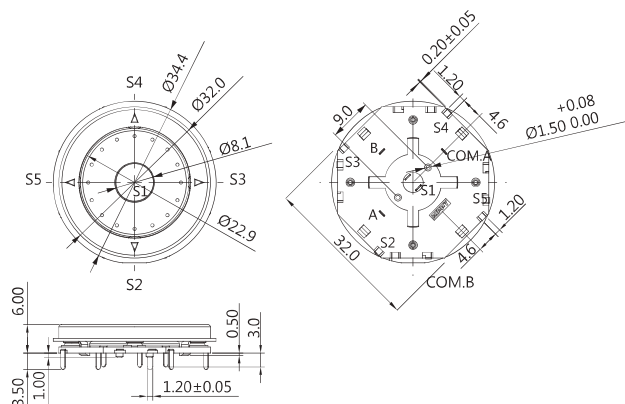


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ROTARY SWITCHES

DIMENSIONS

Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



ANO SERIES

SPECIFICATIONS

Operating Force

Rotation-Max. 60 gf-cm
5 way switch-Max. 300 gf

Contact Resistance(initial)

Max. 300 mΩ
Measured by ohm meter - open voltage < 1VDC, driver current -100 mA

Insulation Resistance(at 100 VDC/ minute)

Min. 100 MΩ

Operating Temperature Range

0°C to 40°C (with no icing)

Vibration

10~55 Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Rotation-Min. 200,000 operations
(C.W. 100,000 & C.C.W. 100,000 operations)
Push-Min. 1,000,000 operations

Electrical Operating Frequency

Rotation-30 operations per minute
Push-120 operations per minute

RATING

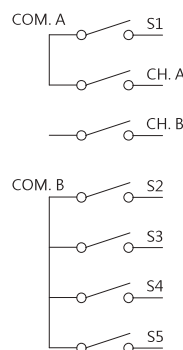
1mA 10VDC

APPLICATIONS

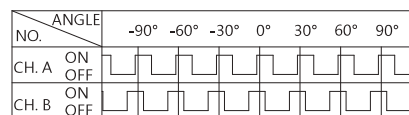
Remote control, Tablet, Keyboard, Audio, Mp3 player, Notebook,
Mobile phone

CONTACT CONFIGURATION

Functional Block Diagram



Rotational Output Waveform

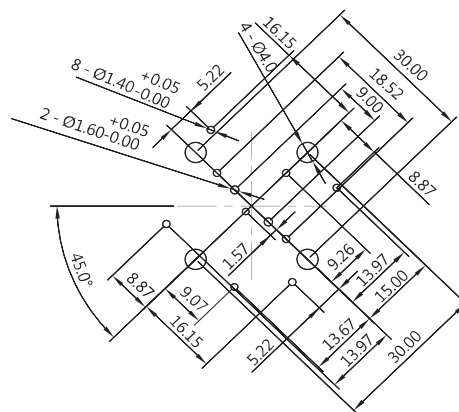


CW ← → CCW

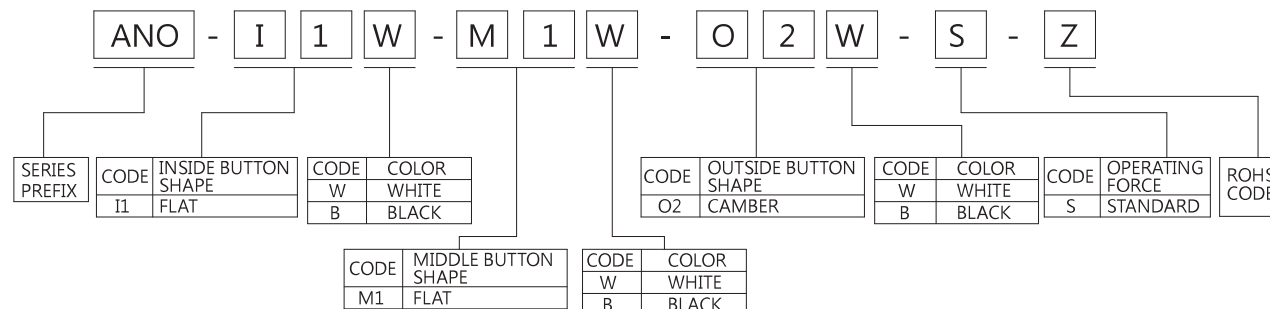
Numbers of detent : 24

Pulse/Rotation : 12 pulse/360°

MOUNTING HOLES



ORDERING INFORMATION

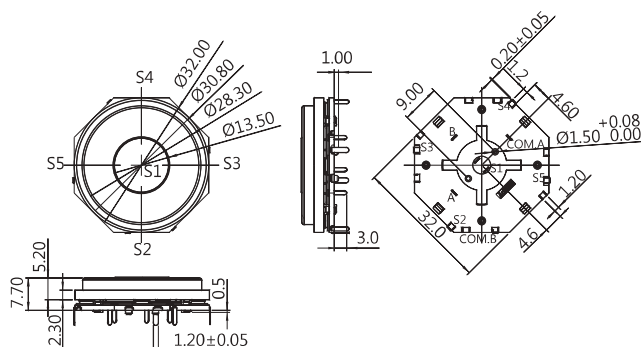


ROTARY SWITCHES



DIMENSIONS

Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



ANQ SERIES

SPECIFICATIONS

Operating Force

Rotation - Max. 60 gf-cm

5 way switch - Max. 300 gf

Contact Resistance (initial)

Max. 300m Ω

Measured by ohm meter - open voltage < 1VDC, Driver current - 100mA

Insulation Resistance (at 100VDC/minute)

Min. 100M Ω

Operating Temperature Range

0°C to 40°C (with no icing)

Vibration

10~55 Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Rotation - Min. 200,000 operations

C.W. 100,000 & C.C.W. 100,000 operations

Push - Min. 200,000 operations

Electrical Operating Frequency

Rotation - 30 operations per minute

Push - 120 operations per minute

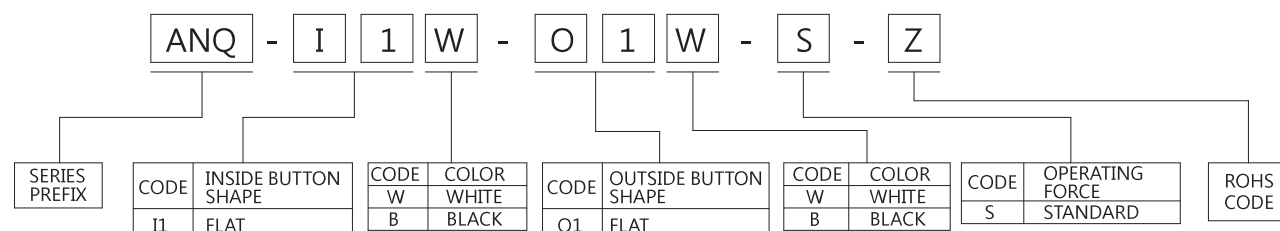
RATING

1mA 10VDC

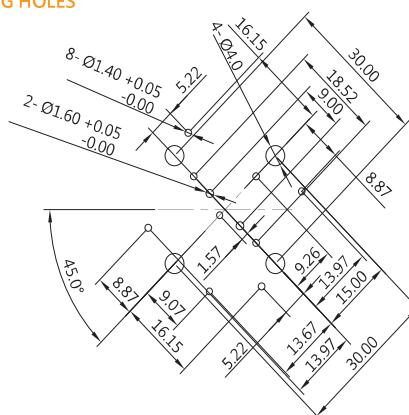
APPLICATIONS

Remote control, Tablets, Keyboard, Audio, Mp3 player, Notebook, Mobile phone, Control Panel

ORDERING INFORMATION

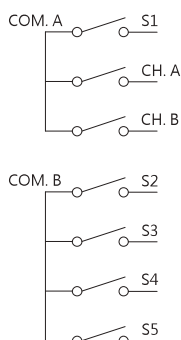


MOUNTING HOLES



CONTACT CONFIGURATION

Functional Block Diagram



Rotational Output Waveform

NO.	ANGLE	-90°	-60°	-30°	0°	30°	60°	90°
CH. A	ON							
CH. A	OFF							
CH. B	ON							
CH. B	OFF							

CW ← → CCW

Numbers of detent : 24

Pulse/Rotation : 12 pulse/360°

ROTARY SWITCHES



KCL SERIES

SPECIFICATIONS

Operating Force

Rotation – Max. 60gf-cm

Push – Max. 300 gf

Contact Resistance (initial)

Max. 300mΩ

Measured by ohm meter –Open Voltage<1VDC, Driver current -100mA

Insulation Resistance (at 100VDC/minute)

Min. 100MΩ

Operating Temperature Range

0°C to 40°C (with no icing)

Vibration

10~55Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Rotation – Min. 200,000 operations

C.W. 100,000 & C.C.W 100,000operations

Push – Min. 1,000,000 operations

Electrical Operating Frequency

Rotation – 30 operations per minute

Push – 120 operations per minute

RATING

1mA 10VDC

APPLICATIONS

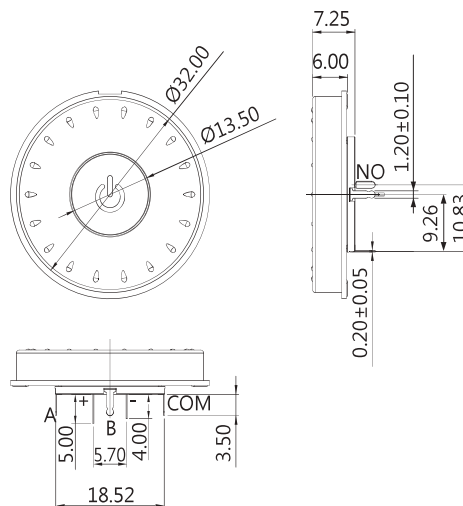
Remote control , Tablet , Keyboard , Audio , Mp3, NB, Mobile Phone

ORDERING INFORMATION

K	C	L	—	I	B	1	B	—	O	1	G	—	Z	
SERIES PREFIX				C O D E	INSIDE BUTTON COLOR	C O D E	INSIDE BUTTON MARKING		C O D E	OUTSIDE BUTTON SHAPE	C O D E	OUTSIDE BUTTON COLOR	ROHS CODE	
				IB	BLACK	1			B	BULE	O1	FLAT	G	GRAY
									W	WHITE				
									R	RED				
									G	GREEN				

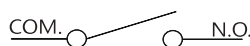
DIMENSIONS

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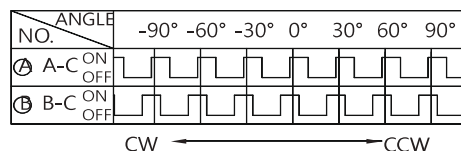


CONTACT CONFIGURATION

Push



Rotation



Numbers of detent : 24
Pulse/Rotation : 12
pulse/360°

MOUNTING HOLES

