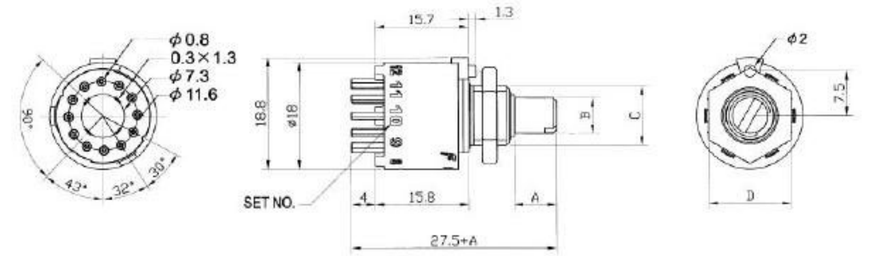
RS SERIES SPECIFICATION

ITEM	TEST CONDITION		SPECIFICATION
OPERATION TEMPERATURE	No condensation		-10° ~ + 50°
STORAGE TEMPERATURE	No condensation		-20° ~ + 70°
MECHANICAL	Revolution starting torque		0.04~0.045Nm(0.4~0.45kgf.cm)
	Shaft load		0.5Nm below
	Screw load		0.2Nm below
	Stopper load		0.3Nm below
	Vibration Test		10~55~10Hz/m 1.5mm x.y.z.3direction 2HR
ELECTRICAL	Contact resistance		100mΩ below
	Isolation resistance	Contact to contact DC250V for 1 min	500MΩ above
		Contact to case DC500V for 1 min	500MΩ above
	Withstanding Voltage	Contact to contact AC250V for 1 min	No exception
		Contact to case AC500V for 1 min	
	Rate load	AC	5V/0.2A/50V/0.1A
		DC	5V/0.1A/50V/0.05A
LIFE EXPECTANCY	Unload test, 60 RPM After 30,000 Rotation test	Revolution starting torque	+/- 20% below
		Contact resistance	150 mΩ
		Insulation resistance	500MΩ above
		Withstanding voltage	500MΩ above
WEATHER	Temperatures + 60° +/- 5% Humidity 85% 18HR	Contact resistance	100mΩ below
		Revolution starting torque	0.04~0.045Nm
		Withstanding voltage	500MΩ above
	Heat-test +60° +/- 5% 8.5HR	Contact resistance	100mΩ below
		Revolution starting torque	0.04~0.045Nm
	Cold-test 0 ° +/- 5% 8.5HR	Contact resistance	100mΩ below
		Revolution starting torque	0.04~0.045Nm

RS EXTERNAL DIMENSIONS



TYPE 1	A
1	7
2	12

Shaft Length

TYPE 2	B	C	D	E
1	φ6	M10	14	φ10.2
2	φ4	M8	10	φ8.2

Shaft Diameter

Unit:mm

COMPACT ROTARY SWITCH

RS SERIES

RS series with multiple switching functions are applicable to machine tool's operation panel for axis selection, feed rate, and override, ... etc.

FEATURES :

- Compact and light weight design for application
- Provide 4 types of encoder board options
- Provide 1, 2, and 4 common poles for options
- Φ4. Φ6 shaft available
- Metal (Gold) coating contact points for stable and highly effectiveness performance
- Waterproof design(IP65) and Built-in O-ring
- New design for easy installation
- OEM/ODM welcome.

上海鑫佑机电有限公司
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COMPACT ROTARY SWITCH

RS SERIES ORDERING INFORMATION

INDEXING ANGLE 30°

RS	04	1	00	S
SERIES NAME	DIAMETER	LENGTH	COMMON POLES	SHORTING
RS	Shaft Diameter	Shaft Length	(Poles × Position)	Shorting Model
	04 φ4(mm)	1 7(mm)	00 1×12	N Non-shorting
	06 φ6(mm)	2 1 2(mm)	01 2×6	S Shorting
	OEM ORDER		02 4×3	

1. 00 TYPE (1×12) CODE ENCODE

Description : S = Shorting N = non-Shorting

●=ON(contact to common signal)

A. Shorting model NO.=S
CODE NO:00S

PIN NO.	STEP 0	1	2	3	4	5	6	7	8	9	10	11
1	●											
2		●										
3			●									
4				●								
5					●							
6						●						
7							●					
8								●				
9									●			
10										●		
11											●	
12												●
Com1												
Com2												
Com3				●								
Com4												

B. Shorting model NO.=N
CODE NO:00N

PIN NO.	STEP 0	1	2	3	4	5	6	7	8	9	10	11
1	●											
2		●										
3			●									
4				●								
5					●							
6						●						
7							●					
8								●				
9									●			
10										●		
11											●	
12												●
Com1												
Com2												
Com3				●								
Com4												

2. 01 TYPE (2×6) CODE ENCODE

Description : S = Shorting N = non-Shorting

●=ON(contact to common signal) PS:6 Step (set no.=7)

A. Shorting model NO.=S
CODE NO:01S

PIN NO.	STEP 0	1	2	3	4	5
1	●					
2		●				
3			●			
4				●		
5					●	
6						●
7	▲					
8		▲				
9			▲			
10				▲		
11					▲	
12						▲
Com1				●		
Com2						
Com3						
Com4				▲		

B. Shorting model NO.=N
CODE NO:01N

PIN NO.	STEP 0	1	2	3	4	5
1	●					
2		●				
3			●			
4				●		
5					●	
6						●
7	▲					
8		▲				
9			▲			
10				▲		
11					▲	
12						▲
Com1				●		
Com2						
Com3						
Com4				▲		

3. 02 TYPE (4×3) CODE ENCODE

Description : S = Shorting N = non-Shorting

●=ON(contact to common signal) PS:3 Step (set no.=4)

A. Shorting model NO.=S
CODE NO:02S

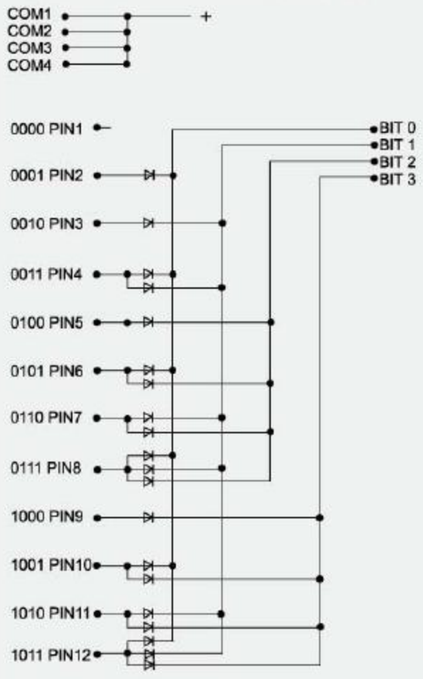
PIN NO.	STEP 0	1	2
1	●		
2		●	
3			●
4	▲		
5		▲	
6			▲
7	■		
8		■	
9			■
10	★		
11		★	
12			★
Com1	●		
Com2	▲		
Com3	■		
Com4	★		

B. Shorting model NO.=N
CODE NO:02N

PIN NO.	STEP 0	1	2
1	●		
2		●	
3			●
4	▲		
5		▲	
6			▲
7	■		
8		■	
9			■
10	★		
11		★	
12			★
Com1	●		
Com2	▲		
Com3	■		
Com4	★		

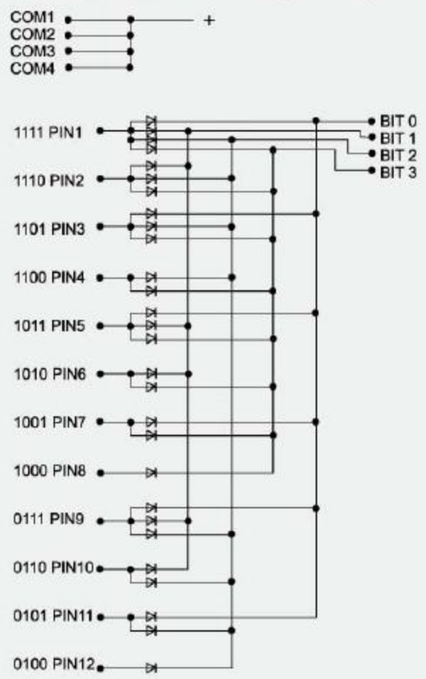
ENCODER BOARD TYPE 1

1. positive common and positive logic



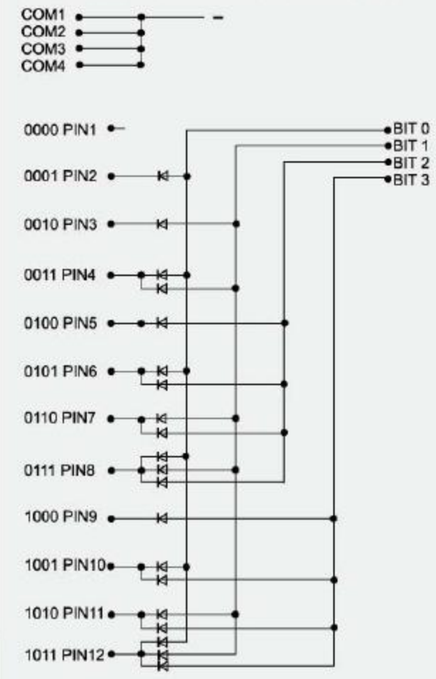
ENCODER BOARD TYPE 2

2. positive common and negative logic



ENCODER BOARD TYPE 3

3. negative common and positive logic



ENCODER BOARD TYPE 4

4. negative common and negative logic