

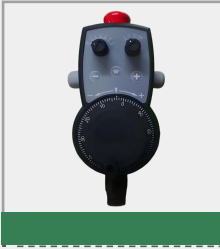
产品选型手册

Product selection guide



RSG Series

Applications & Features



With machine tool inching function.

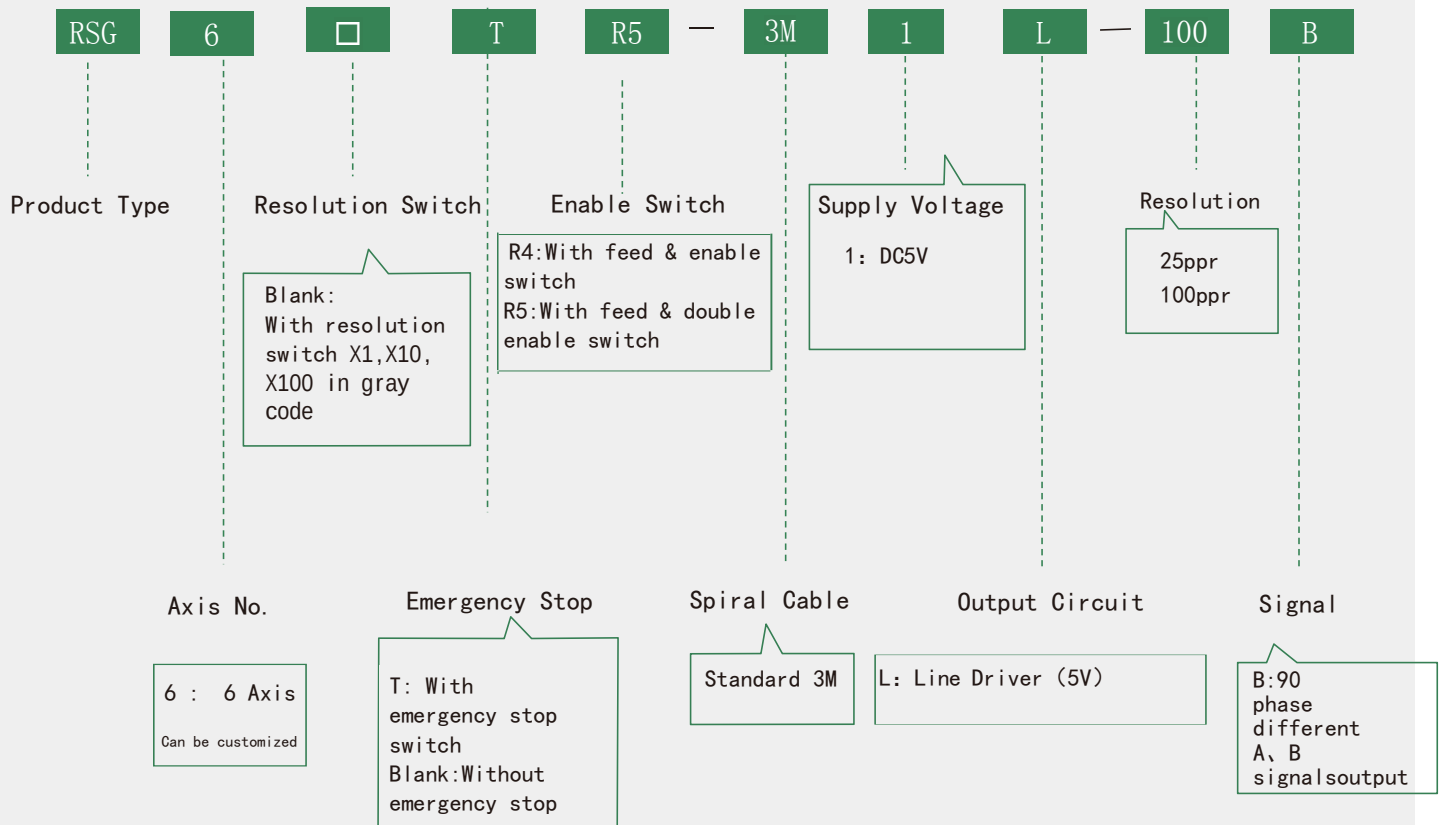
All-plastic housing, anti-oil, sealed.

Emergency stop switch and enable switch optional.

Housing with hook and pendant carrier.

Widely applied in CNC machine tools.

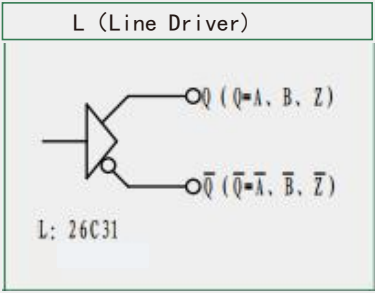
Part Number



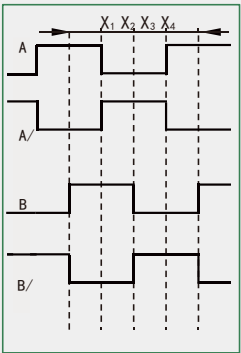
Electrical Specifications

Output Circuit	Supply Voltage DC (V)	Current Requirement (mA)	Output Voltage (V)		Rise Time (ns)	Fall Time (ns)	Frequency Response (kHz)
			V _H	V _L			
L (Line driver)	5±0.25	≤100	>3.5	≤0.7	≤200	≤200	0~300

Output Circuit



Output Waveform



Waveform for L output

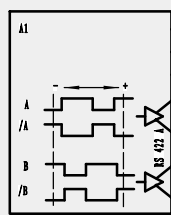
- Wave Ratio : $X1+X2=0.5T \pm 0.1T$
 $X2+X3=0.5T \pm 0.1T$
- Phase Different : $Xn \geq 0.125T$ ($n=1, 2, 3, 4$)
- Absolute Angle Error: $\leq 0.2T$
- Cycle Error : $\leq 0.05T$
- $T=360^\circ / N$ (N =lines count per revolution)

Environmental Specifications

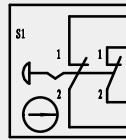
Max. Speed	600r/min
Operating Temp.	-10~+60°C
Store Temp.	-20~+70°C
Size	166.5*78*70mm
Weight	Approx. 0.745kg

Shield electr. connected to the handwheel

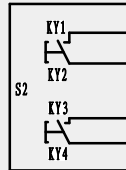
A1:
Handwheel 100 pulses
RS422/A05



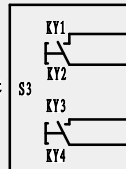
S1:
Emergency-stop



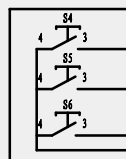
S2:
Enabling switch left



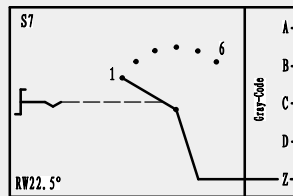
S3:
Enabling switch right



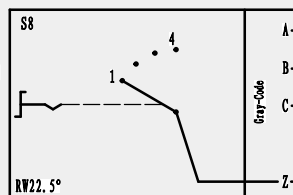
S4:
Button left
S5:
Button middle
S6:
Button right



S7:
Selector switch left
6 positions



S8:
Selector switch right
4 positions



S7	DCBA
1	0000 X
2	0001 Y
3	0011 Z
4	0010 4
5	0110 5
6	0111 6

S8	DCBA
1	0000 0
2	0001 1
3	0011 10
4	0110 100

Shield

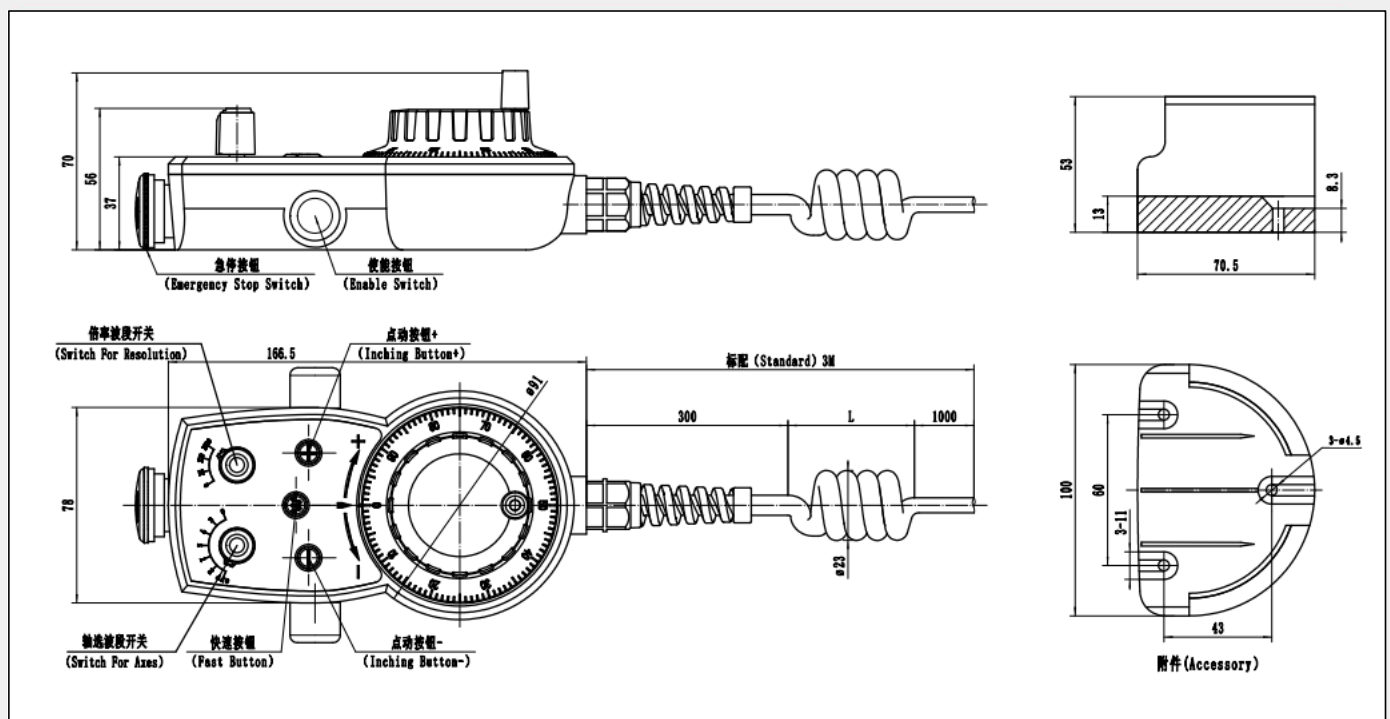
Plug connectors:
Burndy, metal, 26 pin

L	B	Cable Color
0V	18	WH/白
5V	19	BN/棕
A	23	GN/绿
/A	22	YE/黄
B	21	GY/灰
/B	20	PK/粉
K1	3	BK/黑
K3	1	BU/蓝
K4	4	PL/紫
K2	2	RD/红
KY1	5	OG/橙
KY2	6	WH/PK/白粉
KY3	25	YE/BU/黄蓝
KY4	7	WH/PL/白紫
-	12	YE/GN/黄绿
fast	13	YE/BK/黄黑
+	11	WH/GN/白绿
20	8	LBU/天蓝
21	9	WH/BK/白黑
22	10	CL/BK/透黑
COM	16	CL/透明
20	14	YE/RD/黄红
21	15	WH/BU/白蓝
22	17	WH/BN/白棕

26 Pin, 6 Axis with Emergency Stop Button

Function	Emergency Stop				Enable Switch				Axis No.				Jogging Switch			Resolution Switch			Hand wheel							
Cable Color	BK	RD	BU	PL	OG	WH/PK	YE/BU	WH/PL	LBU	WH/BK	CL/BK	CL	WH/GN	YE/GN	YE/BK	YE/RD	WH/BU	WH/BN	WH	BN	PK	GY	YE	GN	SHD	
Line Driver	K1	K2	K3	K4	K1	K2	K3	K4	20	21	22	COM	+	-	fast	20	21	22	0V	5V	B/	B	A/	A	G	N. C.
PINS	3	2	1	4	5	6	25	7	8	9	10	16	11	12	13	14	15	17	18	19	20	21	22	23	24	26

Dimensions



Changchun Rongde Optics Co., Ltd

www.roundssencoder.com

