

产品选型手册

Product selection guide



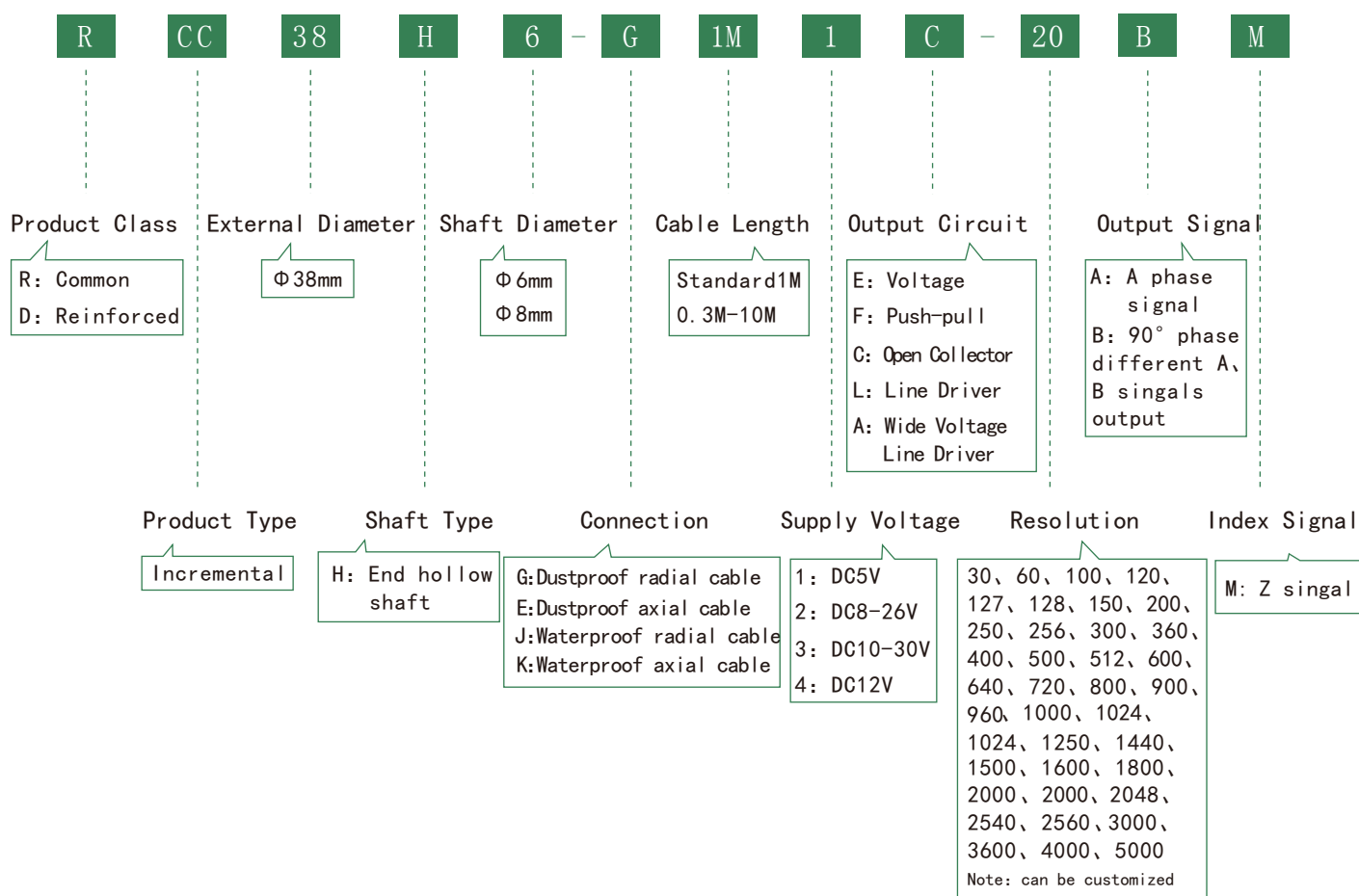
RCC 38H · Series

Applications & Features



RCC38H is widely used to control the speed and position of CNC machines such as embroidery machine. Small outer diameter of 38mm, shaft hole 6/8mm optional, cable is divided into two kinds of radial output and axial output. Rugged construction, high reliability, strong anti-jamming performance, long service life.

Part Number



Electrical Specifications

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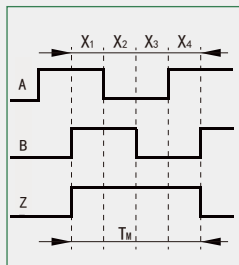
C (Open Collector)	5 ± 0.25	≤ 60	$> V_{CC} - 2.5$	≤ 0.7	≤ 500	≤ 100	0-300
	8-26						
	10-30						
	12						
L (Line Driver)	5 ± 0.25	≤ 100	> 3.5	≤ 0.7	≤ 200	≤ 200	0-300
A (Wide Voltage Line Driver)	8-26	≤ 60	$> V_{CC} - 2.5$	≤ 0.7	≤ 500	≤ 100	0-300
	10-30						
	12						

Output Circuit

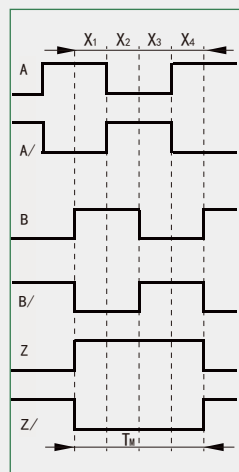
E (Voltage)		F (Push-pull)		C (Open Collector)	L, A (Line Driver)
5V	8-26V	5V	8-26V		
					 L: 26C31 A: ET7272B

Note: C, F output is shorted to ground protection diode.

Output Waveform



Waveform for C, E, F output



Waveform for L, A output

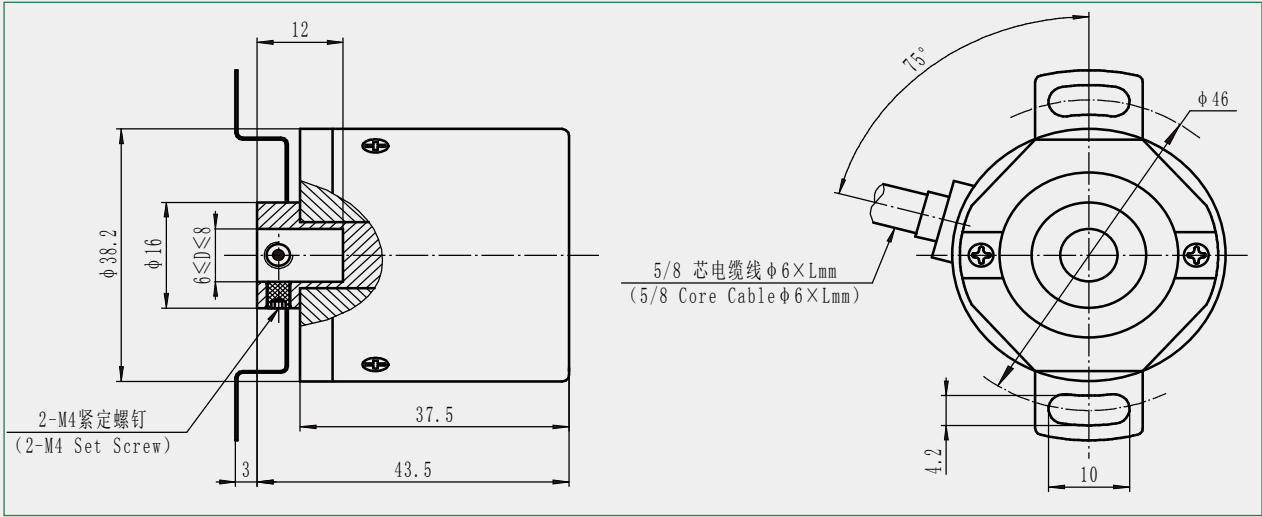
Wave Ratio	$X_1 + X_2 = 0.5T \pm 0.1T$ $X_2 + X_3 = 0.5T \pm 0.1T$
Phase Different	$X_n \geq 0.125T$ ($n=1, 2, 3, 4$)
Absolute Angle Error	$\leq 0.2T$
Cycle Error	$\leq 0.05T$
$T = 360^\circ / N$ (N =lines count per revolution)	
Width of Z signal	
1、 $T_m = 1T \pm 0.5T$	
$T_m = nT \pm 0.1T$ ($n \geq 2$)	
The phase relationship of Z signal and A, B signal is not stipulated.	
2、 $T_m = 0.5T \pm 0.25T$	
$T_m = 0.25T \pm 0.125T$	
$T_m = 0.25T \pm 0.125T$	

The picture shows the clockwise (CW) waveform from the shaft side.

Mechanical Specifications

Max Speed (r/min)	Starting Torque (N. M)	Max Load (N)		Rotary Inertia (kgm ²)	Weight (kg)
		Radial	Axial		
6000	1×10^{-3}	30	20	4×10^{-6}	≈ 0.135

Dimension



Environmental Specifications



Connections

Cable Color	Red	Black	Green	Brown	White	Gray	Yellow	Orange	Shield
E (Voltage)	Vcc	0V	A		B		Z		G
F (Push Pull)	Vcc	0V	A		B		Z		G
G (Open Collector)	Vcc	0V	A		B		Z		G
L, A (Line Driver)	Vcc	0V	A	A-	B	B-	Z	Z-	G

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