



SANSHENG
SENSOR



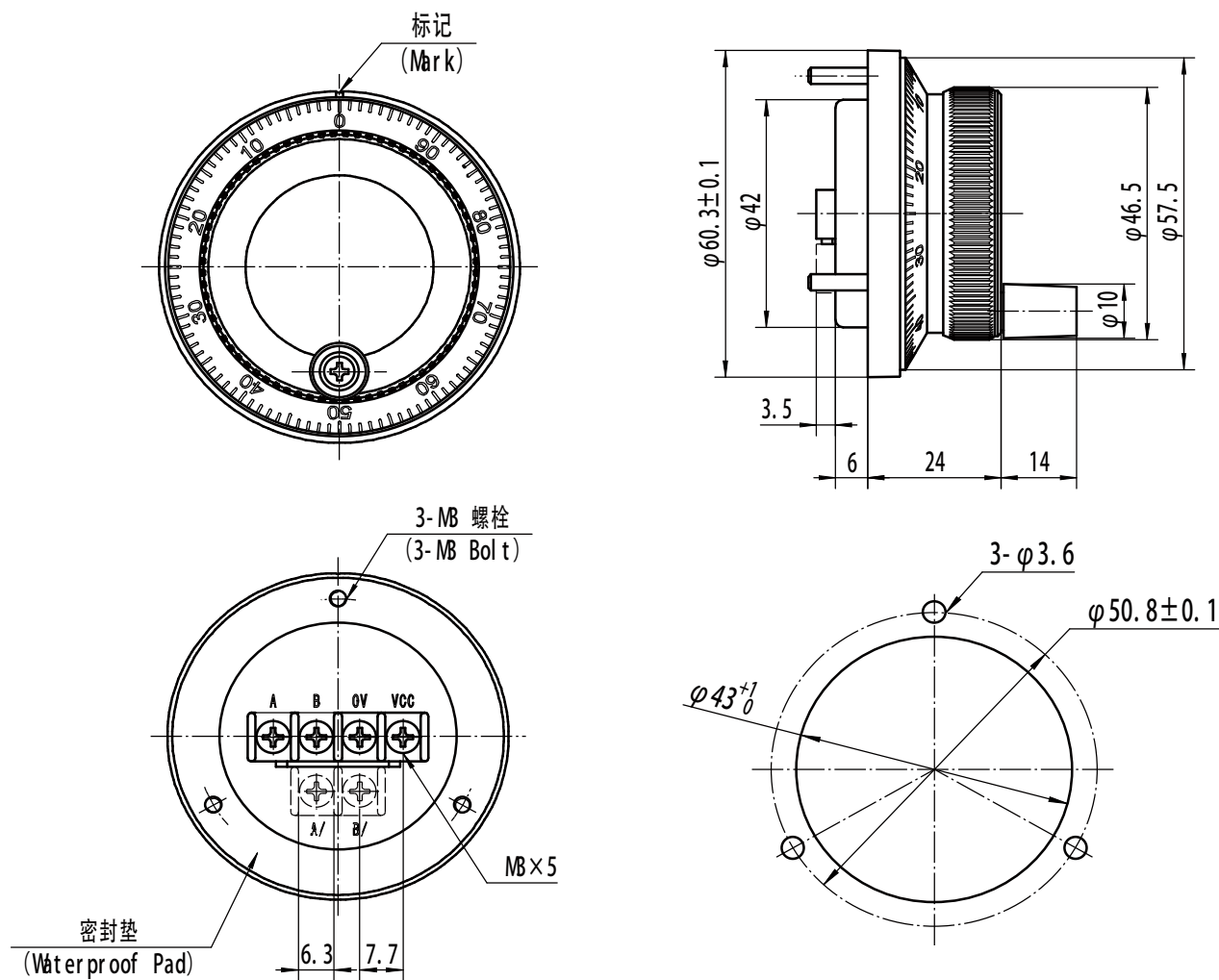
Product Selection Guide

SHC 60.4 Applications & Features

All-metal housing design, durable, high reliability.
Metal gear, with good rotating hand feeling.
Line driver output ensures strong anti-jamming capability.
Used For CNC machine origin correction.
Silver metal housing optional.



Mechanical Drawing



Electrical Specifications

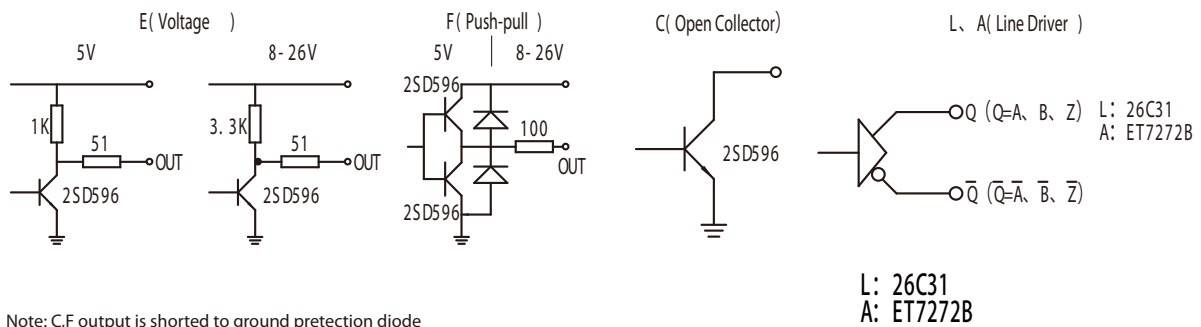
Output Circuit	Supply Voltage DC (V)	Current Requirement (mA)	Output Voltage (V)		Rise Time (ns)	Fall Time (ns)	Frequency Response (kHz)
			V _H	V _L			
E (Voltage)	5 ± 0.25	≤ 80	> 3.5	≤ 0.7	≤ 500	≤ 100	0-100
	8-26	≤ 120	> VCC-2.5	≤ 0.7	≤ 500	≤ 100	0-100
F (Push-pull)	5 ± 0.25	≤ 80	> 3.5	≤ 0.7	≤ 500	≤ 100	0-100
	8-26	≤ 120	> VCC-2.5	≤ 0.7	≤ 500	≤ 100	0-100

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

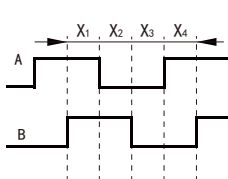
Enviromental Specifications

Max. Speed	600r/min
Operating Temp.	$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Store Temp.	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Size	60mm
Weight	Approx. 0.135kg

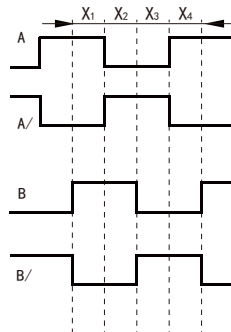
Output Circuits



Output Waveform



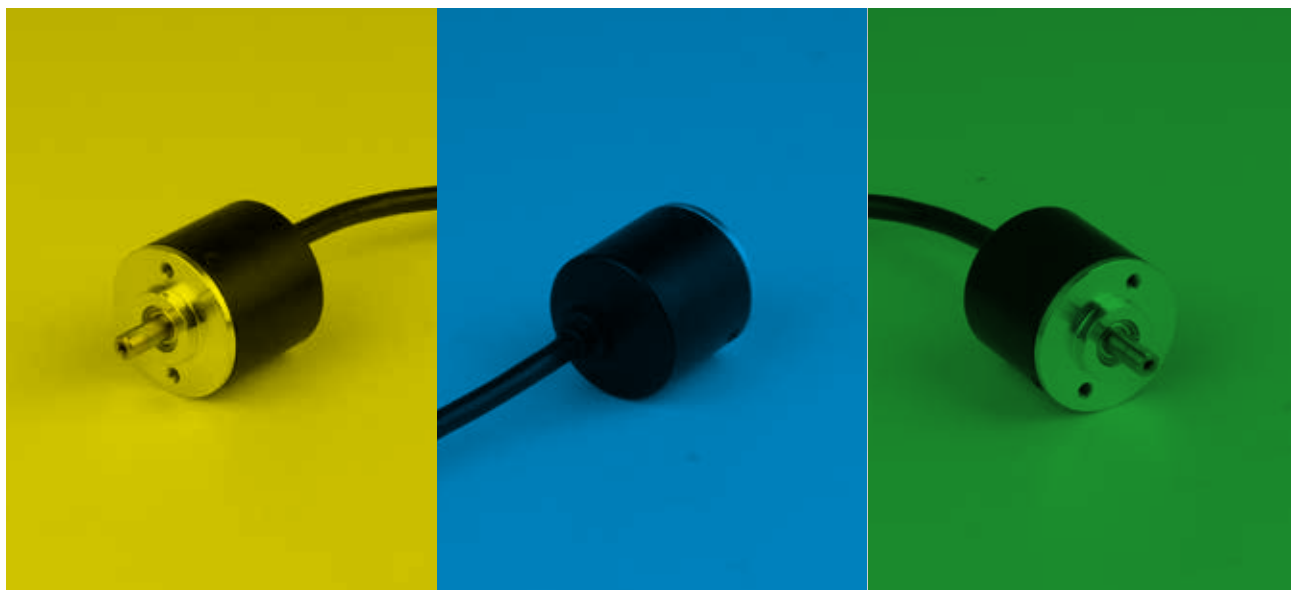
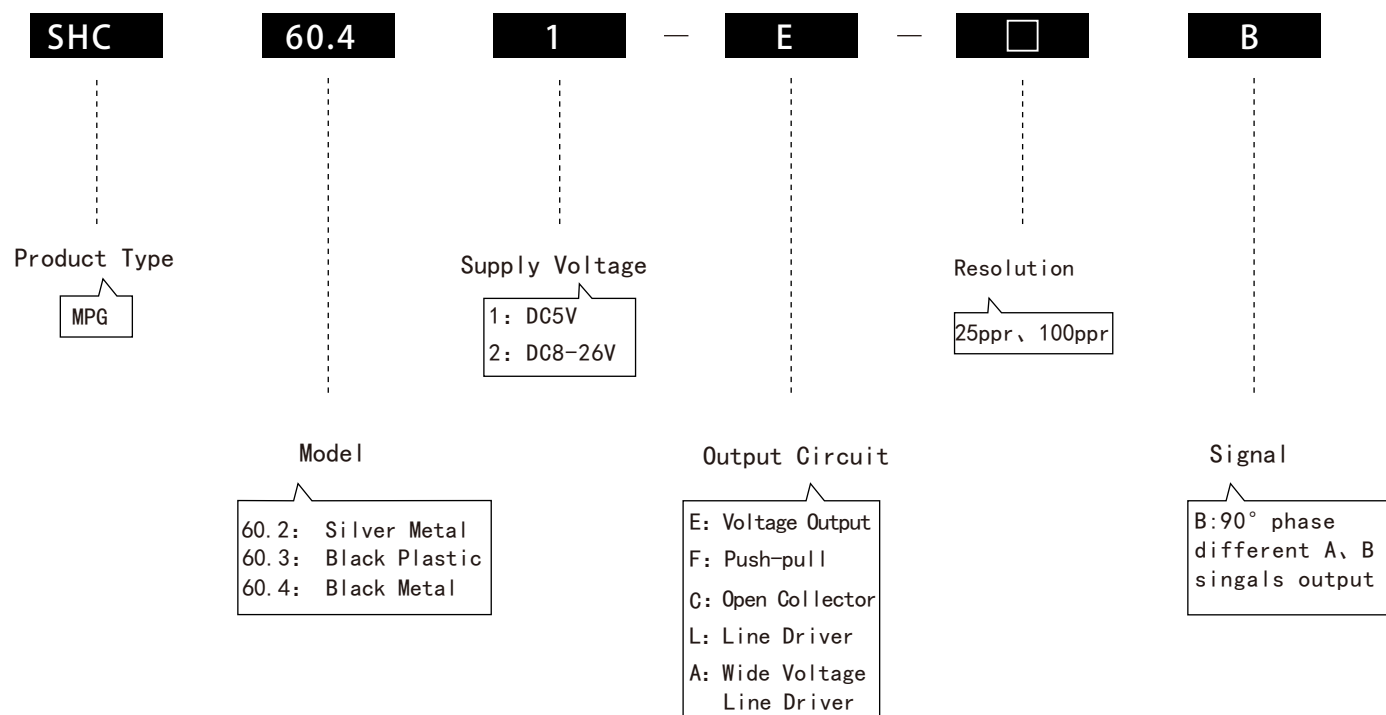
Waveform for C, E, F output



Waveform for L, A 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)

Order Information



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