



SANSHENG
SENSOR



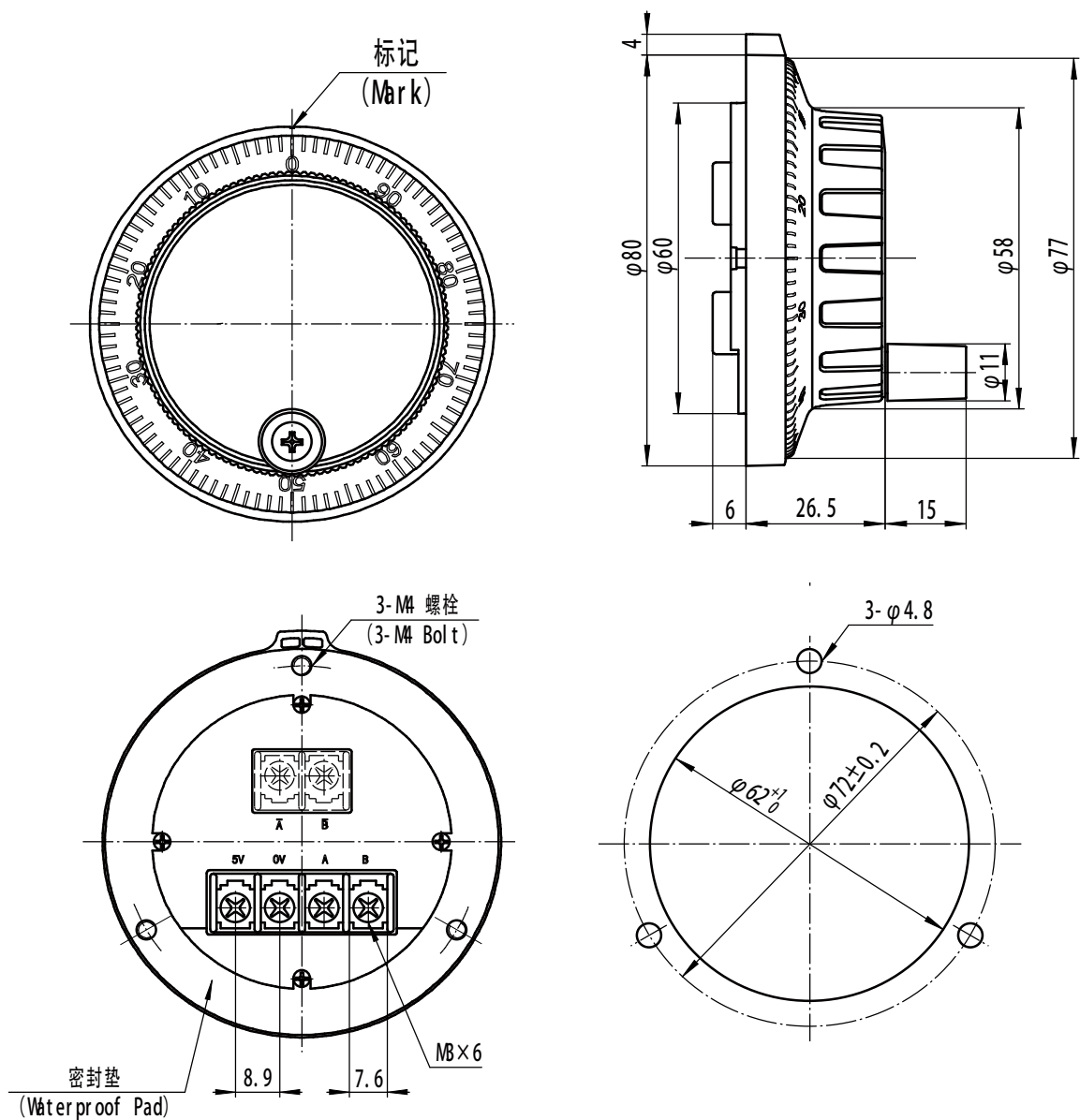
Product Selection Guide

SHC 80.3 Applications & Features

All-plastic housing design, ultra-compact, weight 0.145kg.
Metal gear, with good rotating hand feeling.
Line driver output ensures strong anti-jamming capability.
Particularly suitable for the compact control panel design.
Metal housing optional.



Mechanical Drawing



Electrical Specifications

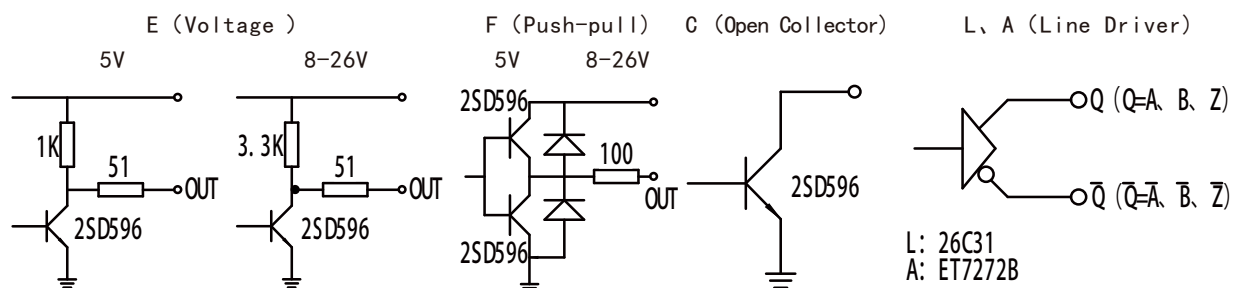
Output Circuit	Supply Voltage DC (V)	Current Requirement (mA)	Output Voltage (V)		Rise Time (ns)	Fall Time (ns)	Frequency Response (kHz)
			V _H	V _L			
E (Voltage)	5 ± 0.25	≤ 80	> 3.5	≤ 0.7	≤ 500	≤ 100	0-100
	8-26	≤ 120	> VCC-2.5	≤ 0.7	≤ 500	≤ 100	0-100
F (Push-pull)	5 ± 0.25	≤ 80	> 3.5	≤ 0.7	≤ 500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

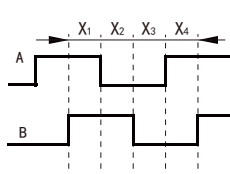
Enviromental Specifications

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	80mm
Weight	Approx. 0.145kg

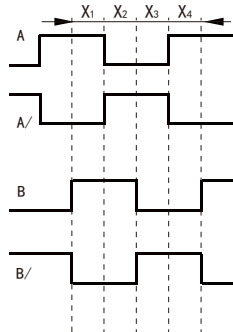
Output Circuits



Output Waveform



Waveform for C, E, F output



Waveform for L, A output

Wave Ratio : $X_1 + X_2 = 0.5T \pm 0.1T$
 $X_2 + X_3 = 0.5T \pm 0.1T$

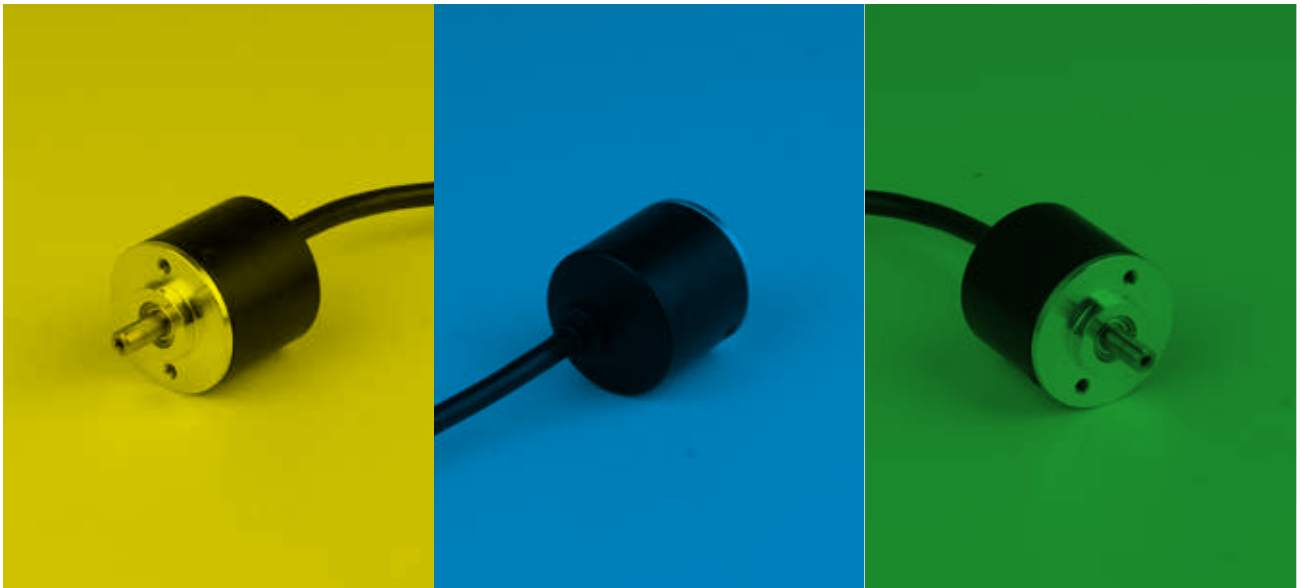
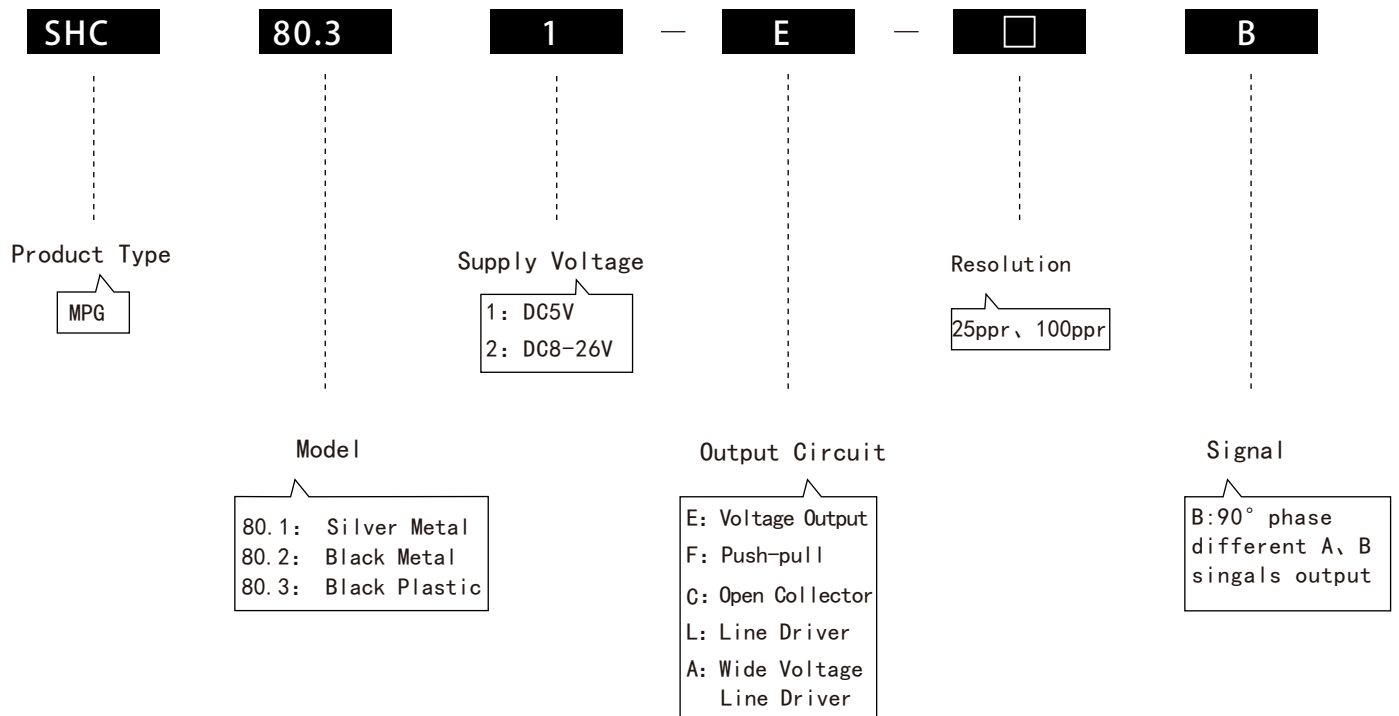
Phase Different : $X_n \geq 0.125T$ ($n=1, 2, 3, 4$)

Absolute Angle Error $\leq 0.2T$

Cycle Error : $\leq 0.05T$

$T = 360^{\circ} / N$ (N =lines count per revolution)

Order Information



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