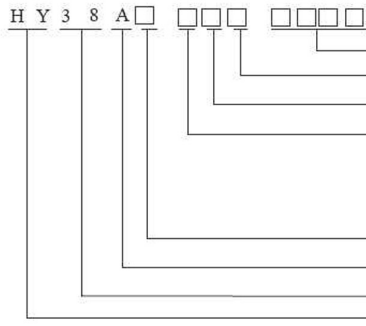


■ Model Illustration



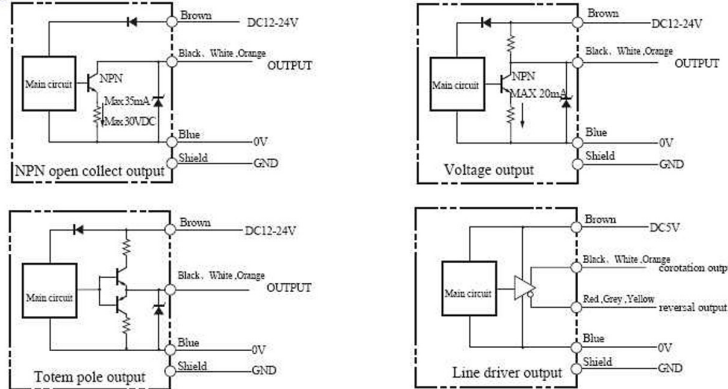
- Pulse: 100, 200, 360, 500, 600
- cable output : No mark: Radial S: Axial
- Cable length : No mark: 2m B: special order
- Output: P: Totem pole output without Z phase
- H: Totem pole output with Z phase
- E: Voltage output N: NPN Open collector L: Line driver DC5V
- C: Line driver DC12-24V
- Shaft diameter: $\phi 6\text{mm}$ $\phi 8\text{mm}$
- Shaft : A: Solid shaft F: Semi-hollow shaft P: Hollow shaft
- Diameter: $\phi 38\text{mm}$
- HY Series

■ Specifications

Power supply	Voltage	DC 5V $\pm 5\%$ or DC 12~24V $\pm 5\%$	INPUT AND OUTPUT	Response time	$\leq 1\mu\text{s}$
	Ripple wave	$\leq 3\%\text{rms}$		NPN Open collector	Load current Max :30mA Residual voltage :Max:0.4VDC
	Current consumption	$\leq 60\text{mA}$, DC 5V $\leq 150\text{mA}$		Totem Pole output	Load current Max 10mA output voltage (power supply 12-24VDC): min (power supply $\sim 3.0\text{VDC}$)
Signal	A B Z	Voltage output		Load current Max :10mA Residual voltage :Max:0.4VDC	
Max Response frequency	100kHz	Line driver		low :load current :Max 30mA residual :max:0.3VDC	
Max Speed	Max frequency $\times 60$			High :load current :Max -20mA residual :min 2.5VDC	
Duty ratio	50 \pm 25%			Residual voltage	$\leq 0.5\text{V DC}$
Phase Width	25 \pm 12.5%				
Signal Width	100 \pm 50%				

Mechanical specification	Starting torque	$\leq 0.01\text{N} \cdot \text{m}$ ($+20^\circ\text{C}$)	Ambient specification	Short-circuit protection	output and power supply	
	Rotor inertia	$0.3 \times 10^{-6} \text{kg} \cdot \text{m}^2$		Ambient temperature	$-10 \sim +70^\circ\text{C}$	
	Shaft loading	Radial		20N	Store temperature	$-25 \sim +85^\circ\text{C}$
		Thrust		10N	Ambient humidity	35 ~ 85%RH
	Max revolution	5000rpm		Dielectric strength	500VAC 50/60Hz for 1 min	
	Cable	Material		PVC	Insulation resistance	$\geq 50\text{M}\Omega$
		Length		2m	Vibration	0.75mm amplitude at 10-55Hz
Diameter		$\Phi 5\text{mm}$		Shock	Max 50G	
Weight	200g	Protection		IP54		

■ Connections



Cable color	Brown	Blue	Black	Red	White	Grey	Orange	Yellow	Shield
NPN open collect output	Vcc	OV	A	-	B	-	Z	-	G
Totem pole output	Vcc	OV	A	-	B	-	Z	-	G
Voltage output	Vcc	OV	A	-	B	-	Z	-	G
Line driver output	Vcc	OV	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	G

■ Dimensions(unit:mm)

