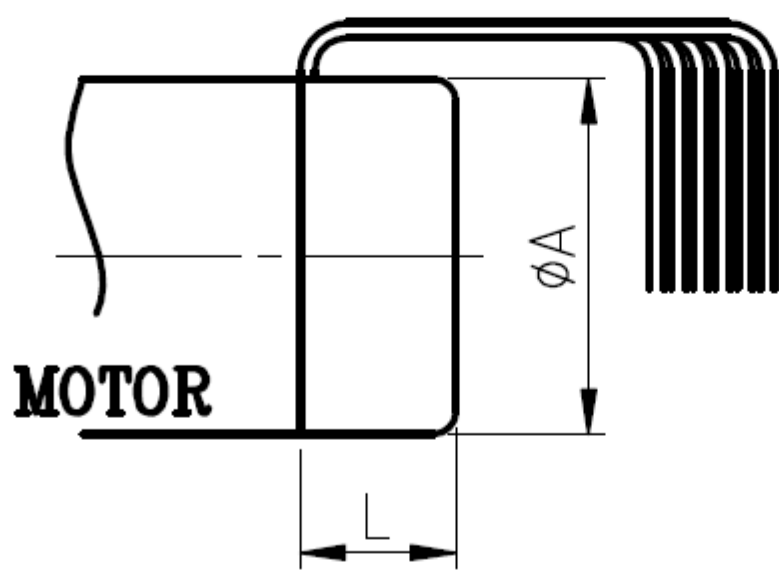



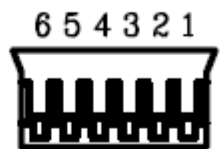
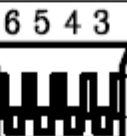

## Magnetic Encoder

- One and Two Channel Hall Effect
- Operating Relative Humidity: 20% to 85%
- Operating Temperature Range: -10°C to +60°C

### DIMENSIONS

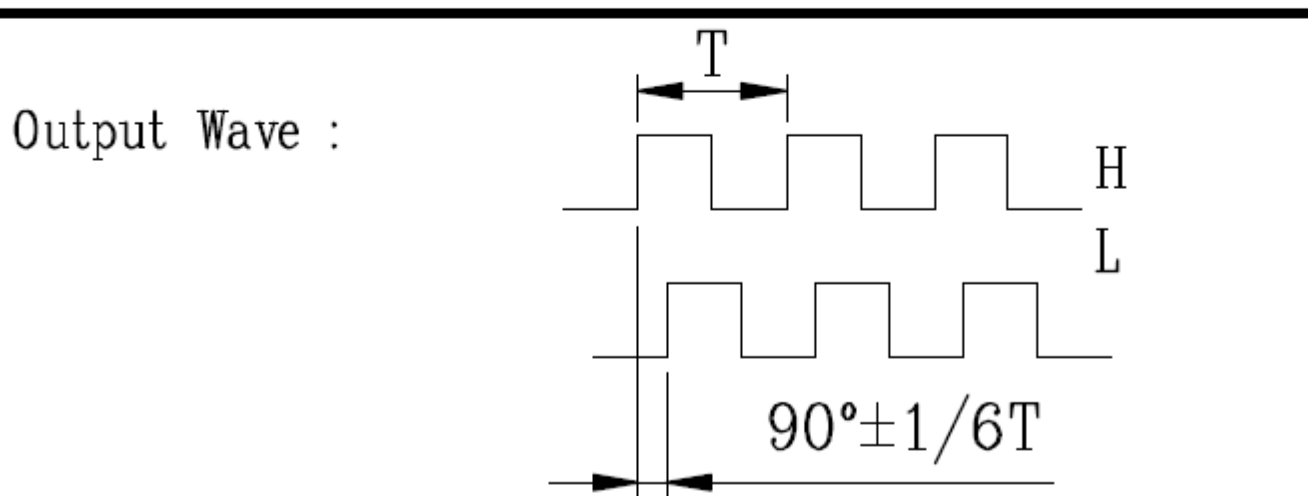
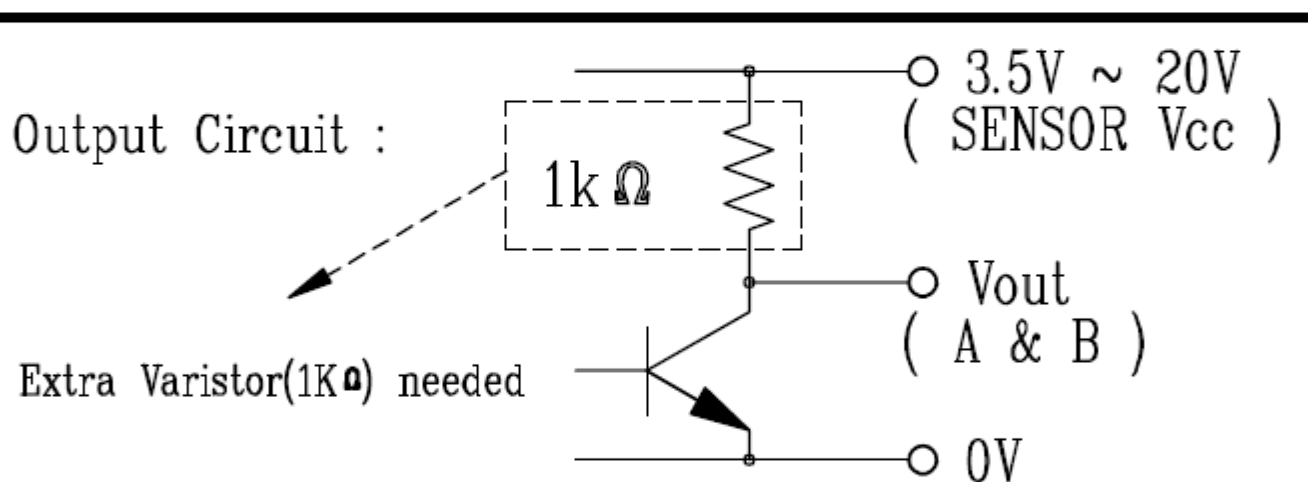


★ WITHOUT CAP

Motor $\phi A$	CAP L	COUNTS POLES OF PER TURN(PPR)		Wire Type Length	Connector Type
		current	limit.		
$\phi 12$	★ 6.5	2, 6 (1, 3)	6 (3)	ULI061 AWG26 100mm	JST ZHR-6 P=1.5-6P 
$\phi 15.4$	★ 6.5	2, 6 (1, 3)	6 (3)		
$\phi 20.3$	★ 8.5	2, 6 (1, 3)	6 (3)		
$\phi 30.0$	12.6	2, 6, 14 (1, 3, 7)	14 (7)	ULI007 AWG24 100mm	JST PHR-6 P=2.0-6P 
$\phi 32$	14.3	14 (7)	14 (7)		
$\phi 36$	13.5	14 (7)	14 (7)		
$\phi 42.5$	15.5	2, 10 (1, 5)	10 (5)	ULI007 AWG24 ULI007 AWG18 100mm	JST PHR-4 P=2.0-4P 
$\phi 52$	18.0	2, 10 (1, 5)	10 (5)		Molex 09-50-3021 P=3.96-2P 
$\phi 54$					

### ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	REF.	MAX.	UNITS
Supply Voltage	Vcc	---	3.5	-	20	V
Output Saturation Voltage	Vce(sat)	Vcc=14V ; Ic=20mA	-	300	700	mV
Output Leakage Current	Icex	Vce=14V ; Vcc=14V	-	< 0.1	10	$\mu$ V
Supply Current	Ice	Vcc=20V Output open	-	5	10	mA
Output Rise Time	t <sub>r</sub>	Vcc=14V ; R <sub>L</sub> =820 $\Omega$ ; C <sub>L</sub> =20pF	-	0.3	1.5	$\mu$ S
Output Fall Time	t <sub>f</sub>	Vcc=14V ; R <sub>L</sub> =820 $\Omega$ ; C <sub>L</sub> =20pF	-	0.3	1.5	$\mu$ S



#### Two Channel Encoder

Connections :

1. Black : -MOTOR
2. Red : +MOTOR
3. Brown : HALL SENSOR Vcc
4. Green : HALL SENSOR GND
5. Blue : HALL SENSOR A Vout
6. Purple : HALL SENSOR B Vout

#### One Channel Encoder

Connections :

1. Black : -MOTOR
2. Red : +MOTOR
3. Brown : HALL SENSOR Vcc
4. Green : HALL SENSOR GND
5. Blue : HALL SENSOR A Vout
6. Purple : EMPTY