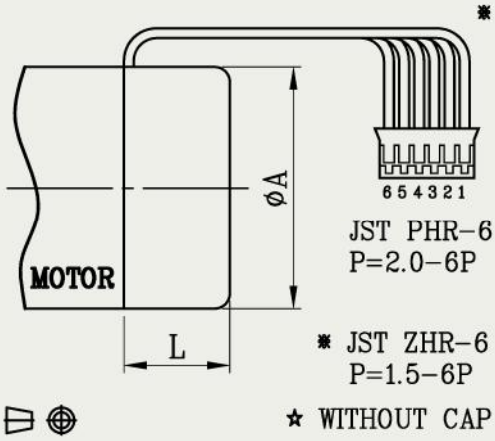
Magnetic Encoders

- Two Channel Hall Effect Encoder
- One Channel Hall Effect Encoder

★ 20%~85%RH Operating relative humidity

★ −10°C~+60°C Operating temperature range

APPEARANCE SIZE



✱ UL1061 AWG26
UL1007 AWG26

suggested connectors

JST PHR−6 P=2.0−6P — AMP 175788, Molex 51065, JST PH

✱ JST ZHR−6 P=1.5−6P — JST ZH

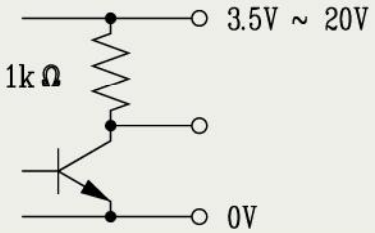
☆ WITHOUT CAP

ØA	L	COUNTS POLES OF PER TURN (PPR) current	limit.
✱ ø12	☆ 6.5	2 , 6 (1 , 3)	6 (3)
✱ ø16	☆ 6.5	2 , 6 (1 , 3)	6 (3)
ø20	☆ 8.5	2 , 6 (1 , 3)	6 (3)
ø27.3	12.6	2 , 6 , 14 , 26 (1 , 3 , 7 , 13)	26 (13)
ø32.3	14.3	14 , 26 (7 , 13)	26 (13)
ø35.3	13.5	14 , 26 (7 , 13)	26 (13)
ø42.5	15.5	2 ,10, 38 (1 , 5 , 19)	38 (19)

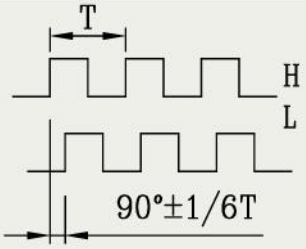
ELECTRICAL CHARACTERISTICS

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	μV
Supply Current	Ice	Vcc=20V Output open	–	5	10	mA
Output Rise Time	t_r	Vcc=14V ; R_L=820Ω; C_L=20pF	–	0.3	1.5	μS
Output Fall Time	t_f	Vcc=14V ; R_L=820Ω; C_L=20pF	–	0.3	1.5	μS

Output Circuit :



Output Wave :



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

September 2006