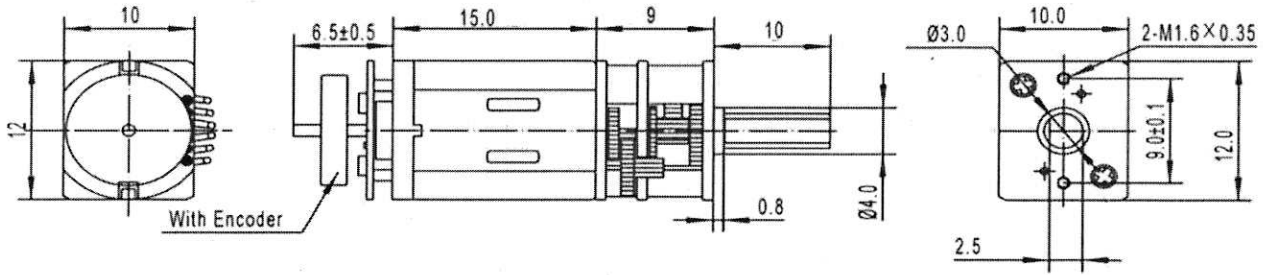


# Micro Metal Gearmotor with 12CPR Encoder

Dimensions:



Micro Metal Gearmotor with 12CPR Encoder(Units in MM)

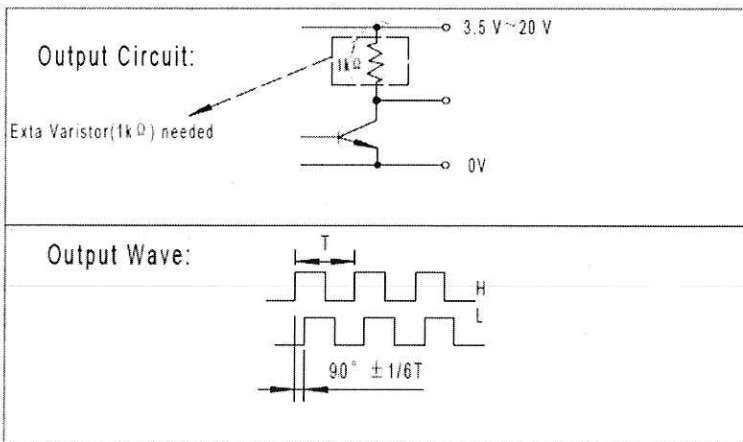
## Two Channel Hall Effect Encoder

Operating relative humidity 20% ~ 85%RH

Operating temperature range -10°C ~ +85°C

### ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	REF.	MAX.	UNITS
Input 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
Input Current	Ice	Vcc=20V, Output open	—	5	10	mA
Output Rise Time	t <sub>r</sub>	Vcc=14V; R <sub>L</sub> =820Ω; C <sub>L</sub> =20pF	—	0.3	1.5	μS
Output Fall Time	t <sub>f</sub>	Vcc=14V; R <sub>L</sub> =820Ω; C <sub>L</sub> =20pF	—	0.3	1.5	μS



Connectors: JST PHR-6

- 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