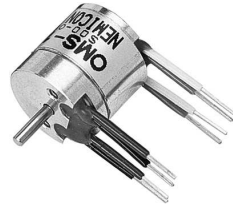


NEMICON

**MINIATURE TYPE**

**OMS-T** Model



**Miniature Model**

- Ultra Micro Encoder :  $\phi 12$ .
- Ultra Light Encoder Max : 8g.

**Model**

OMS - [ ] [ ] - [ ] T

Resolution

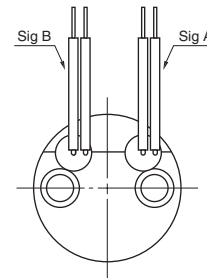
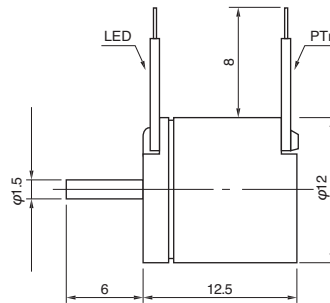
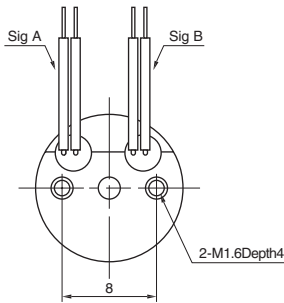
Signals

- 1 : 1 Single
- 2 : AB90° Phase Difference

NOTE) Output Mode is Sine Wave Signal

50	50 P/R	90	90 P/R	125	125 P/R
60	60 P/R	100	100 P/R		

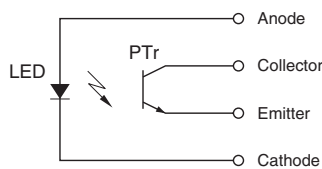
**External Dimension**



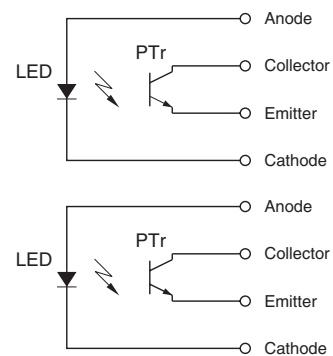
※ Install without stress on wires.

**Circuit of Output Signal**

1T



2T



**Electrical Spec.**

TYPE	1T	2T
LED Current	IF = 26 mA Max	
Maximum Frequency Response	10 KHz	
Output Signal Amplitude	150 mVp-p or More	
Output Amplitude Variation	40 % Max	

**Electrical Connections**

Color of Lead Wire	Description
Red	Anode
Black	Cathode
Blue	Collector
White	Emitter

**Max. Rating of Electronic Elements**

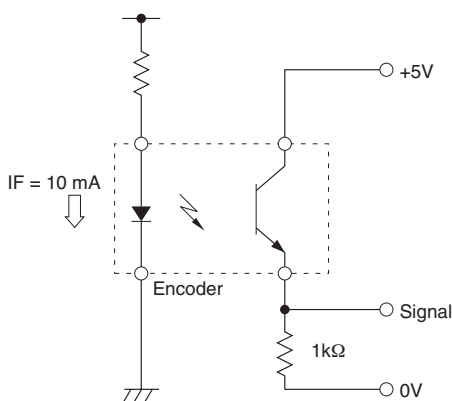
LED Light Emitting Diode

Max. Current Flow	IF ; 60 mA
Reverse Voltage	VR ; 4 V
Derate(25 to 70°C)	- 1.73 m W / °C

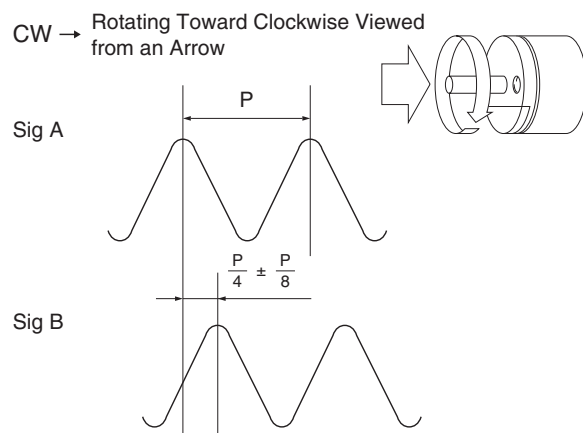
PTT Photo Transistor

Collector-Emitter Voltage	V <sub>CEO</sub> ; 20 V
Emitter-Collector Voltage	V <sub>ECO</sub> ; 5 V
Collector Current	I <sub>c</sub> ; 20 mA
Collector Power Dissipation	P <sub>c</sub> ; 75 mW
Derate(25 to 70°C)	- 1.0 m W / °C

**Test Circuit**



**Wave Form.**



**Mechanical Spec.**

Starting Torque	9.8×10 <sup>-5</sup> N · m Max	
Shaft Loading	Thrust axial	0.98N
	Radial	0.98N
Moment of Inertia	2×10 <sup>-9</sup> kg · m <sup>2</sup>	
Maximum RPM	6000r/min	
Net Weight	8g Max	

**Environmental Spec.**

Operating Temperature	0°C ~ +50°C
Storage Temperature	- 20°C ~ +80°C
Humidity	RH 85% Max No Condensation
Vibration	50 Hz / 98m/s <sup>2</sup> 1 h
Shock	294m/s <sup>2</sup> , 11ms X, Y, Z Each 3 times
Degree of Protection	IP50

## We are here for you. Addresses and Contacts.

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