

**MANUAL TYPE**

**UFO-mini**

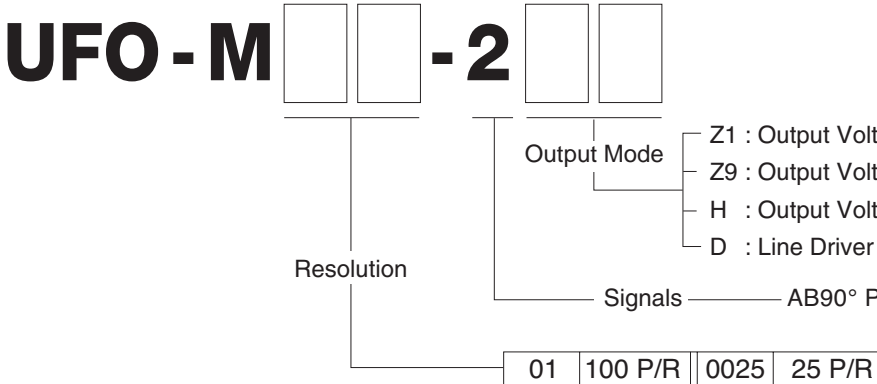
Model



**Compact & Very Thin**

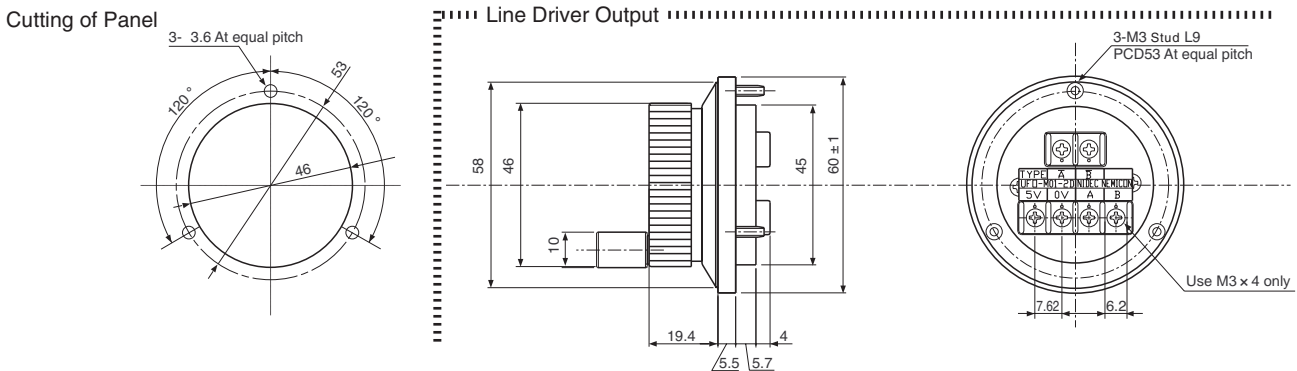
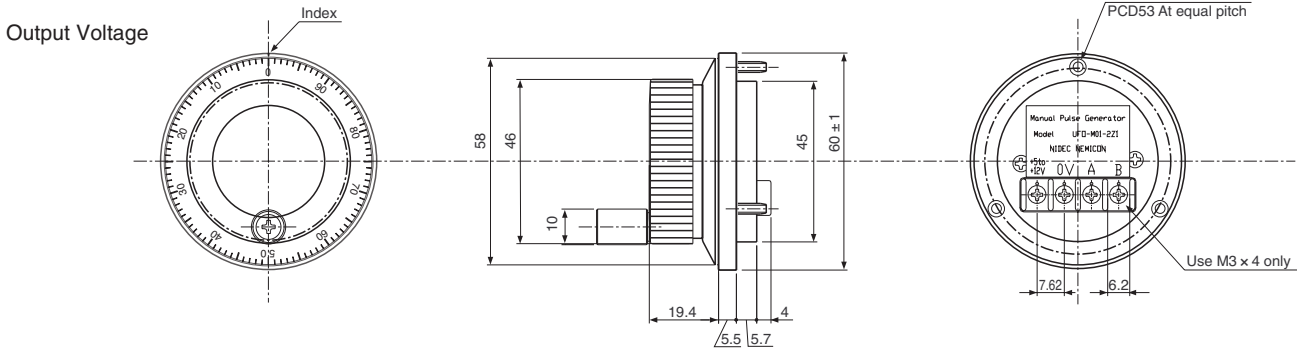
- Optical Slot Mode.
- Click Mechanism.

**Model**

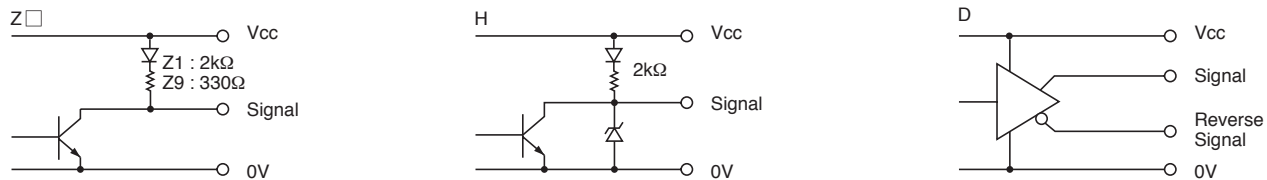


Z1 : Output Voltage (NPN Tr.)(Internal Resistance 2kΩ)  
 Z9 : Output Voltage (NPN Tr.)(Internal Resistance 330Ω FANUC Spec.)  
 H : Output Voltage (NPN Tr.)(MELDAS Spec.)  
 D : Line Driver Output Only for 25 P/R

**External Dimension**



**Circuit of Output Signal**

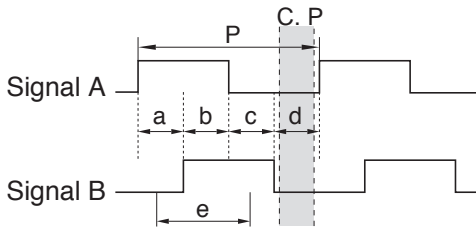


### Electrical Spec.

TYPE		Z1	Z9	H	D
Supply Voltage		DC+5V ~ 12V ± 10%	DC+5V ± 10%	DC+12V ± 10%	DC+5V ± 5%
Requirement		50 mA Max	70 mA Max	50 mA Max	100 mA Max
Pulse Par a Revolution "H"		100P/R • 25P/R		25P/R	100P/R • 25P/R
Output Voltage	"L" ※1	Within -1 Power Volt		+5V ± 10%	2.5 V or More
		0.5 V Max			
Maximum Frequency Response <sup>2</sup>		5 kHz			
Rise & Fall Time		1 μs Max		1.5 μs Max	1 μs Max
Maximum Output Current		20 mA MAX			

※1) at Maximum Output Current    ※2) Without click mechanism

### Wave Form.

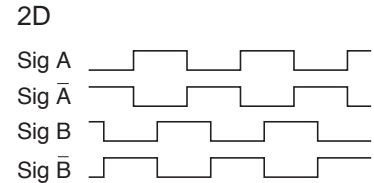


$$P = \frac{1}{1\text{Resolution}} \quad a, b, c, d = \frac{P}{4} \pm \frac{P}{6} \quad 2D$$

Wave Ratio (Duty); 50 ± 25 (%)

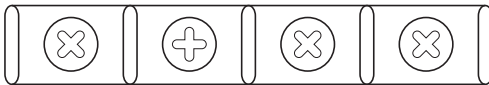
C. P = Click Point

For mode 25P/R click point is at each position of a,b,c,d. Point "e" is recommended as the system switching point.

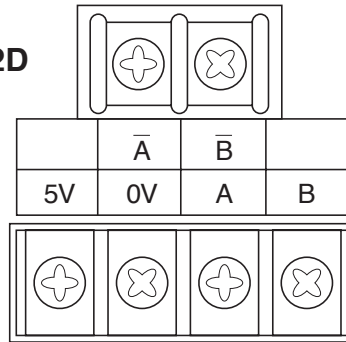


### Electrical Connections

2



2D



### Mechanical Spec.

Starting Torque		2.94×10 <sup>-2</sup> ~5.88×10 <sup>-2</sup> N·m
Shaft Loading <sup>1</sup>	Thrust axial	9.8N
	Radial	19.6N
Moment of Inertia		600r/min( Maximum ) 200r/min( Continuous )
Rotational Life		1 Mln.rev.min.( 200r/mim )
Net Weight		200g Max

### Environmental Spec.

Operating Temperature	- 10°C ~ +60°C
Storage Temperature	- 20°C ~ +70°C
Humidity	RH 85% Max No Condensation
Vibration	10 ~ 55 Hz / 1.5mm 2 h
Shock	490m/s <sup>2</sup> , 11ms X, Y, Z Each 3 times