

MANUAL TYPE

UFO Model



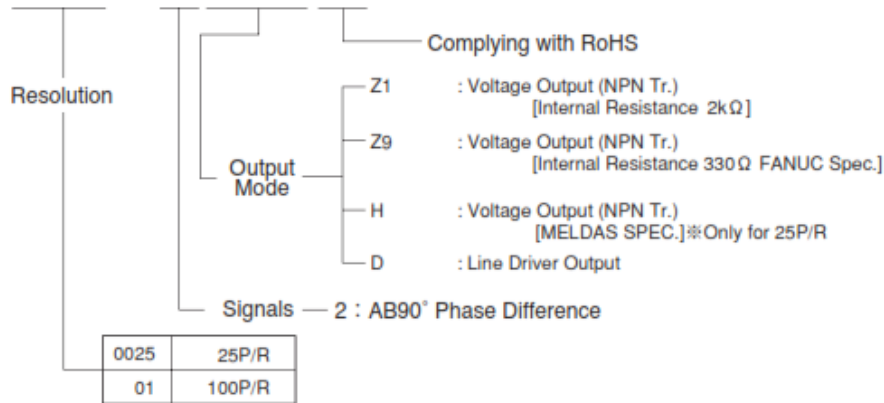
Compact & Very Thin

- Suitable for Thin Type Operator Panel.
- Click Mechanism.

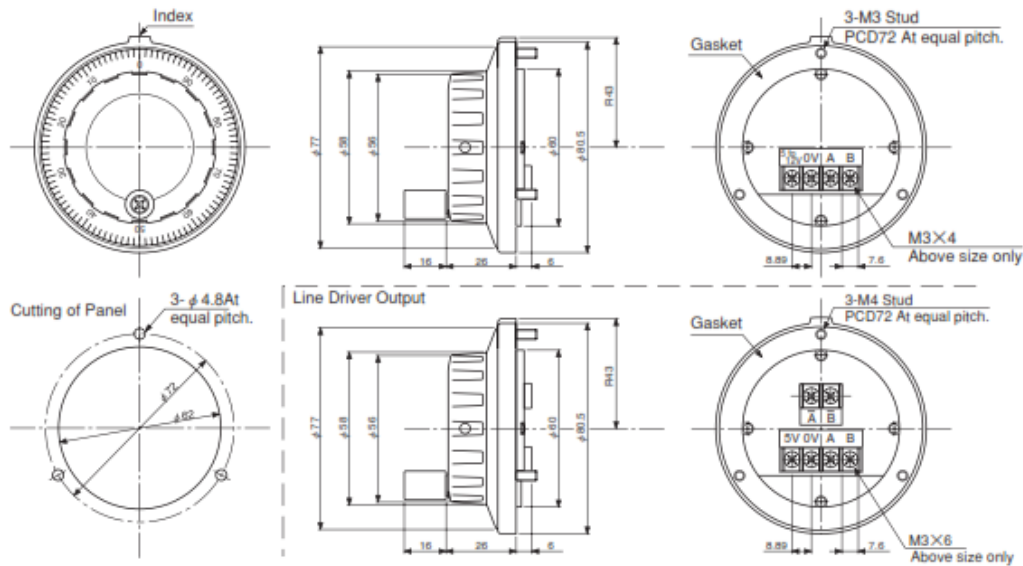
Model



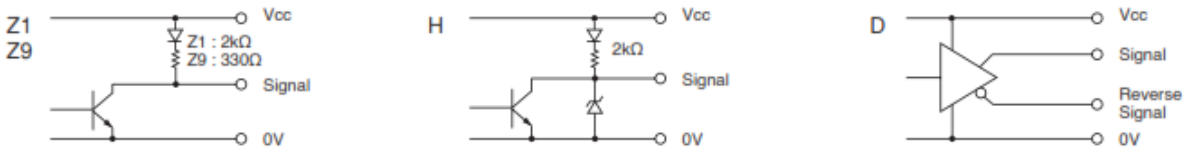
UFO-□□-2□□E



External Dimension



Output Circuit



UFO

Electrical Spec

TYPE		Z1	Z9	H	D
Power Supply(Vcc)		DC+4.5V ~ +13.2V	DC+5V±10%	DC+12V±10%	DC+5V±5%
Current Consumption		50 mA Max	70 mA Max	50 mA Max	150 mA Max
Resolution		100P/R · 25P/R		25P/R	100P/R · 25P/R
Output Voltage	"H"	Vcc-1V Min		+5V±10%	2.5 V Min
	"L"※1	0.5 V Max			
Maximum Frequency Response		5 kHz			
Rise & Fall Time		1 μs Max		1.5 μs Max	200 ns Max
Maximum Sink Current		20 mA			

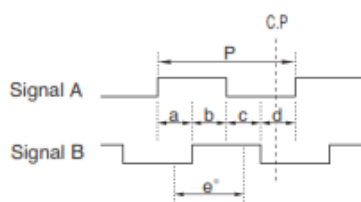
※1) at Maximum Sink Current

Wave Form

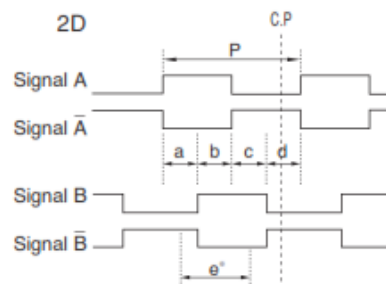
CW → Rotating Toward Clockwise Viewed from Front Side

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

2Z1 · 2Z9 · 2H



2D



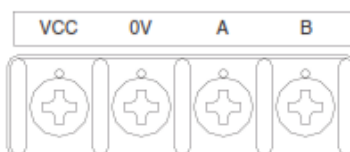
C.P=Click points

For mode 25P/R click point is at each position of a,b,c,d.

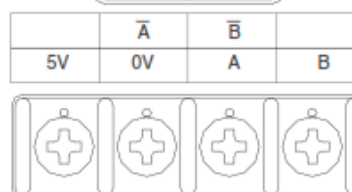
※Point "e" is recommended as the system switching timing.

Electrical Connections

2Z1 · 2Z9 · 2H



2D



Mechanical Spec

Starting Torque	1.96×10 ⁻² N·m~5.88×10 ⁻² N·m	
Shaft Loading	Thrust	9.8N
	Radial	19.6N
Maximum Permissible Speed	600min ⁻¹ (Instantaneous) 200min ⁻¹ (Continuous)	
Rotational Life	> 1 million rotations (200min ⁻¹)	
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 X, Y, Z Each 2h
Shock	490m/s ² , 11ms X, Y, Z Each 3 times
Ingress Protection	IP64(Panel Mounting)

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