

HANDY PENDANT



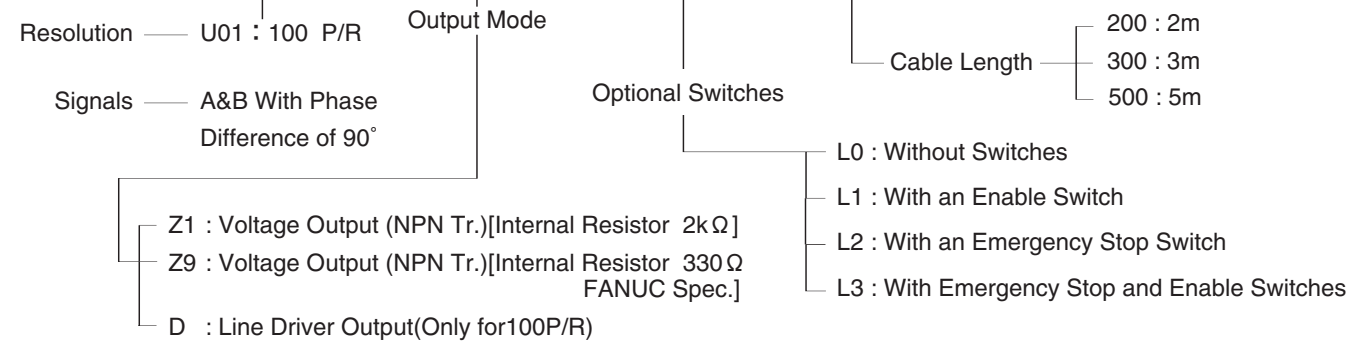
Economical Palm Size Model

- Low Cost Plastic Box Type.
- Comfortable Size for Hand.

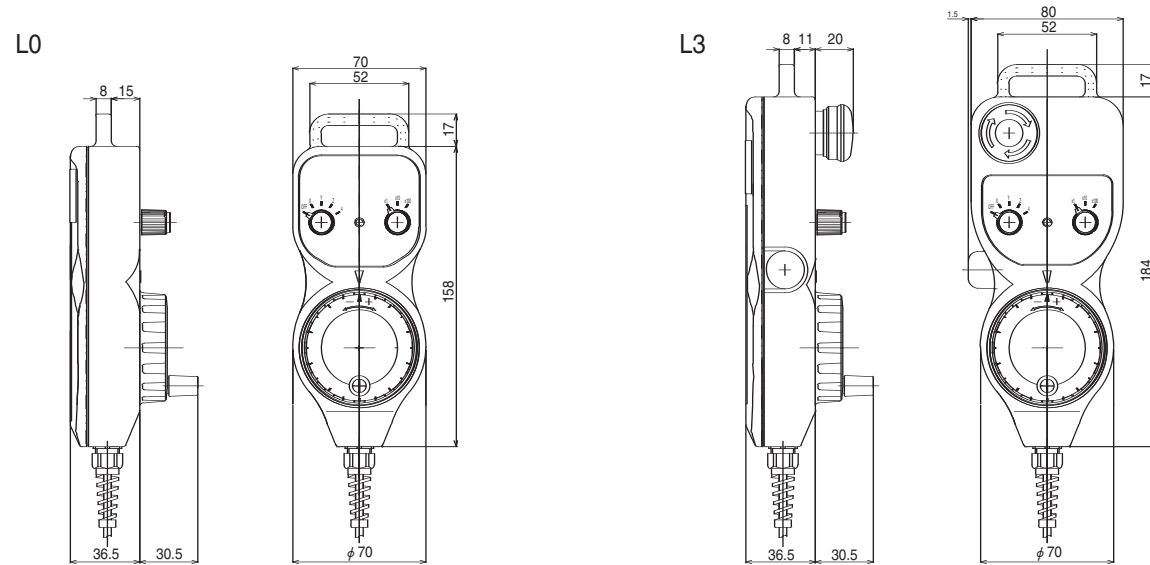
HP-U_{Model}

Model

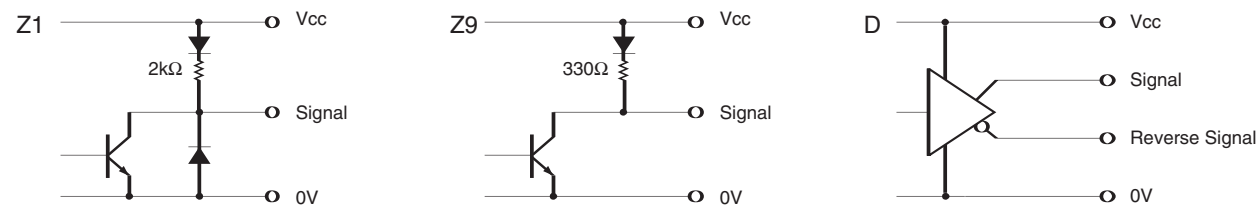
HP - U01 - 2□□ - P□□ - □□□ - 00



External Dimension



Circuit of Output Signal

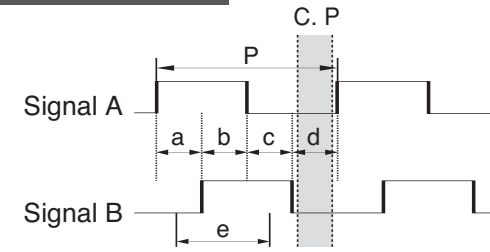


Electrical Spec.

Manual Pulse Generator ※1) at Maximum Output Current ※2) Without click mechanism

TYPE		Z1	Z9	D
Supply Voltage		DC+5V±10%	DC5V±10%	DC5V±5%
Requirement		60mA Max	80mA Max	150mA Max
Pulse Par a Revolution		100P/R		
Output Voltage	"H"	Within -1 Power Volt		2.5 V or More
	"L" ※1	0.5 V or Less		
Maximum Frequency Response ※2		5kHz		
Rise & Fall Time		1 μs Max	200 ns Max	
Maximum Output Current		20 mA MAX (As L level)		

Wave Form.



$$P = \frac{1}{1 \text{ Resolution}}$$

$$a, b, c, d = \frac{P}{4} \pm \frac{P}{6}$$

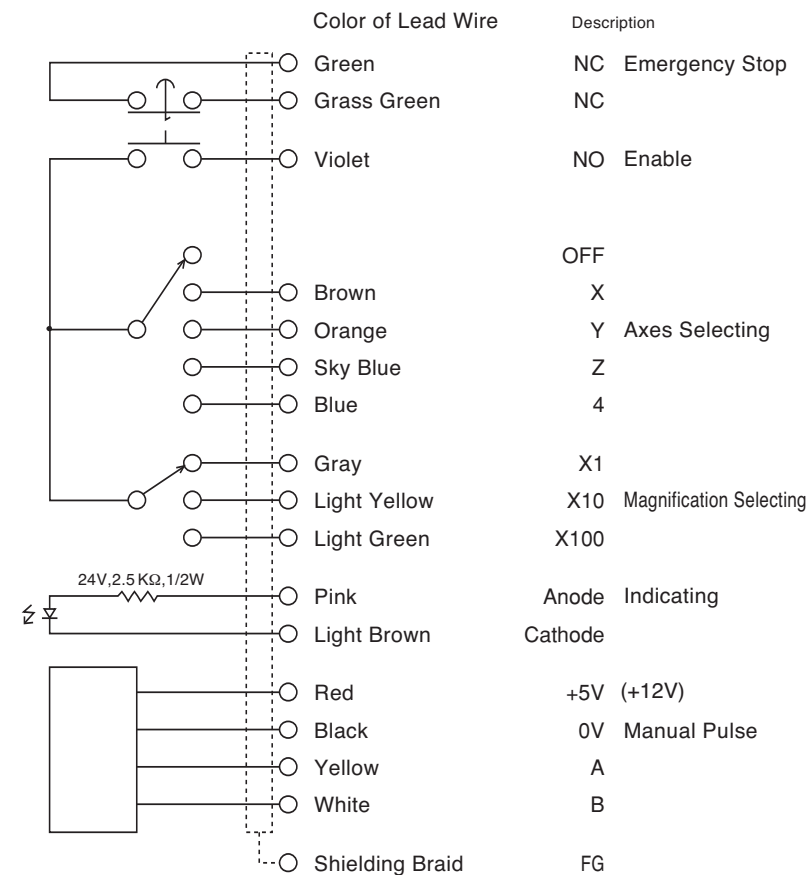
Wave Ratio (Duty); 50 ± 25 (%)

C. P = Click Point

※1) Inverted Output is available for 2D type.

※2) Point "e" is recommended as the system switching timing

Electrical Connections (L3 Spec.)



Mechanical Spec.

Starting Torque	1.96×10 ⁻² N·m~5.9×10 ⁻² N·m (at Z 0°C)	
Shaft Loading	Thrust axial	9.8N
	Radial	19.6N
Maximum RPM	200r/min	
Net Weight	450g Max (W / O cable)	

Environmental Spec.

Operating Temperature	- 10°C ~ +60°C
Storage Temperature	- 20°C ~ +80°C
Humidity	RH 85% Max No Condensation
Vibration	10 ~ 55 Hz / 1.5mm 2 h
Shock	490m/s ² , 11ms X, Y, Z Each 3 times
Protection	to IP65(for Box)