descriptions (catalog, website).



of this unit.

When you install this unit, if eccentricity and deflection angle are larger, it may shorten the life cycle

. Pink TP2 N·C 2<sup>°</sup>×100 Transpare FP N-C  $2^{1} \times 100$ Light Brown 2<sup>2</sup>×100 N-C Light Yellow N-C 2<sup>3</sup>×100 2°×1000 Light Green N·C Light Blue N·C Light Purple N-C Signal shield cable (F.G.) Binary Code/Gray Code Bla Bla Or Ye Gr Bli Lig Lig Non-using wires must be insulated ※Encoder case and shield cable must be grounded. ※N.C (Not Connected) : Not using. \*Please make sure not to short when wiring output cables because the dedicated driver IC is used at output circuit. \*Do not apply tensile strength over 30N to the cable. 1021 1022 1023 '0 Cautions during Use 1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents 2. 5VDC, 12-24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device. 3. For using the unit with the equipment which generates noise (switching regulator, inverter, servo motor, etc.), ground the shield wire to the F.G. terminal. Ground the shield wire to the F.G. terminal. 5. When using switching mode power supply, frame ground (F.G.) terminal of power supply should be arounded 6. Wire as short as possible and keep away from high voltage lines or power lines, to prevent inductive noise. . Check the wire type and response frequency when extending wire because of distortion of waveform or residual voltage increment etc by line resistance or capacity between lines. This unit may be used in the following environments Indoors (in the environment condition rated in 'Specifications') @Altitude max. 2.000m ③Pollution degree 2 ④Installation category II 1021 1022 1023 '0 Major Products Photoelectric Sensors Temperature Controllers Fiber Optic Sensors Temperature/Humidity Transducers Door Sensors SSRs/Power Controllers Door Side Sensors Counters Area Sensors Timers Proximity Sensors Panel Meters Pressure Sensors Tachometer/Pulse (Rate) Meters Rotary Encoders Display Units Connector/Sockets Sensor Controller Switching Mode Power Supplies

# Connection

## BCD Code 45 48 64 90 128 180 256 360 512 720 1024 Resolut White Black 0V Brown Red Orange Yellow Green 2°×10 Blue 2<sup>1</sup>×10 Purple N·C $2^{2} \times 10^{2}$ Gray 2<sup>3</sup>×10

511 512 513

511 512 513

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ary code/Gray code															
Resolution	32 -division		45 -division		64 -division	90 -division	128 -division	180 -division	256 -division	360 -division	512 -division	720 -division	1024 -division		
Vhite	+V														
Black	0V														
Brown							2 <sup>0</sup>								
Red							2 <sup>1</sup>								
Drange		2 <sup>2</sup>													
/ellow		2 <sup>3</sup>													
Green		24													
Blue	N·C 2 <sup>5</sup>														
Purple	N·C 2 <sup>6</sup>														
Gray	TP1					N·C 2 <sup>7</sup>									
Pink	TP2					N·C					2 <sup>8</sup>				
ransparent	EP					N·C							9		
ight Brown	N·C														
ight Yellow	N·C														
ight Green	N·C														
ight Blue		N·C													
ight Purple	N·C														
hield cable		Signal shield cable (F.G.)													
	n wires	must h	incul	hate											

- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controller Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, CO<sub>2</sub>, Nd; YAG)
- Laser Welding/Cutting System

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