**Caution for your safety**

1. Do not drop water or oil on this unit.
2. Please remove voltage rating.
3. Please check the polarity of power and wrong wiring.
4. Do not short-circuit the leads. May result in damage to this unit.

**Warning**

1. In case of using this unit with machinery/Medical equipment, vehicle, train, airplane, combustion apparatus, entertainment processing equipment, conveyor, elevator or safety device etc., it is required to install fail-safe device, or contact us for information on type required.
2. May cause serious human injury or a life.

**Environment resistance**

- Rated at no freezing or condensation.

**Environment**

- Ambient temperature: 0°C to 50°C
- Relative humidity: 85% or less (non-condensing)
- Altitude: 1000m or less

**Dimensions**

- Hollow shaft type (E40S)
  - Outer diameter: ø40mm
  - Inner diameter: ø20mm
  - Length: 1000mm

- Hollow shaft type (E40H)
  - Outer diameter: ø40mm
  - Inner diameter: ø20mm
  - Length: 1000mm

- Hollow shaft type (E40SB)
  - Outer diameter: ø40mm
  - Inner diameter: ø20mm
  - Length: 1000mm

- Hollow shaft type (E40SBP)
  - Outer diameter: ø40mm
  - Inner diameter: ø20mm
  - Length: 1000mm

**Connection**

- Normal type
  - Total pole output
  - NPN open collector output
  - Voltage output

- Cable outgoing connector type
  - Line Driver output
  - Collector output
  - Voltage output

**Output waveform**

- A phase
  - B phase
  - Z phase
  - T phase

**Specifications**

- Resolution
  - 1024 P/R
  - 512 P/R
  - 256 P/R
  - 128 P/R

- Voltage output
  - Line Driver output
  - Voltage output
  - Totem Pole output
  - NPN open collector output
  - Collector output

**Control output diagram**

- Tolem Pole output
  - NPN open collector output
  - Rotary encoder circuit
  - Load connection
  - Rotary encoder circuit
  - Load connection
  - Voltage output
  - Line Driver output
  - Rotary encoder circuit
  - Load connection
  - Rotary encoder circuit
  - Load connection
  - Voltage output
  - Line Driver output

**Notice**

- A, B dimensions are the same as hollow shaft type (E40S)
- Cable outgoing connector type
  - Line Driver output
  - Collector output
  - Voltage output

**Non-winding wire must be insulated.**

- The shield cable and mainline of encoder must be grounded.

**Features**

- High resolution
- High stability
- High reliability
- High speed

**Contact**

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