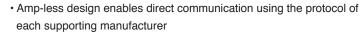
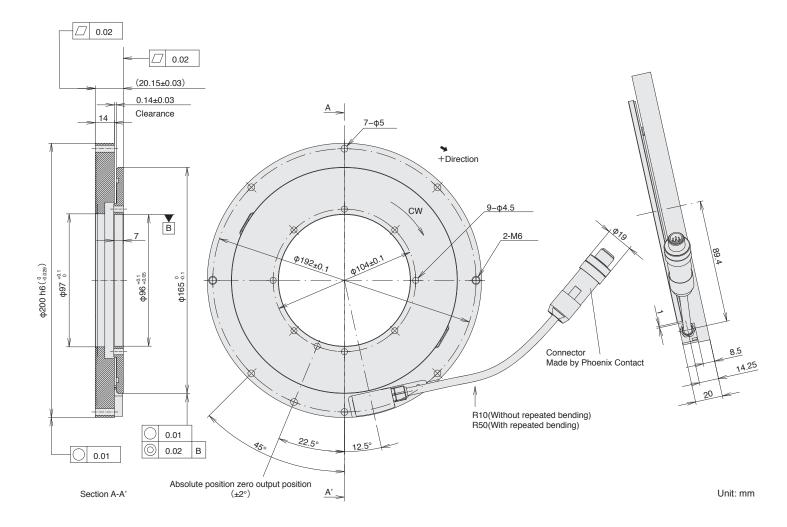
## Rotary exposed type



- · Magnetic system enables use even in environments with condensation and oil and other adverse conditions
- 96mm diameter through-hole allows for design and mounting flexibility
- Use of two heads provides resistance to axial runout

## Dimensions



| Specifications        |  |              |                           |
|-----------------------|--|--------------|---------------------------|
|                       | <u></u>  | <u></u>      | <u></u>                   |
| Model name            | RS97-1024EGA   | RS97-1024EGD | RS97-1024EGZ              |
| Output wave number    | 1,024 waves/revolution                                       |              |                           |
| Through hole diameter | ф96 mm   |              |                           |
| Accuracy(at 20°C)     | ±2.5"  |              |                           |
| Output signal         | Absolute serial bidirectional signal, compliant with EIA-485 |              | Compliant with DRIVE-CLiQ |

Functional safety Please consult with each controller manufacturer regarding support for functional safety. FCC Part15 Subpart B Class A ICES-003 Class A Digital Device Legal compliance EN55011 Gp1 Class A, EN61000-6-2

FANUC

| Operating temperature range | 0 to +60°C                                    |   |  |
|-----------------------------|---|---|--|
| Storage temperature range   | -10 to +60°C                                  |   |  |
| Vibration resistance        | 150 m/s² (50 Hz to 2,000 Hz)                  |   |  |
| Impact resistance           | 1,000 m/s <sup>2</sup> (11 ms)                |   |  |
| Protective design grade     | IP65  |   |  |
| Power supply voltage range  | DC+4.75 to +5.25 V                            | DC+17 to +30.8 V                            |  |
| Maximum power consumption   | 1.25W or less (4.75V)<br>1.2W or less (5.25V) | 2.3W or less (17V)<br>3.1W or less (30.8V)  |  |
| Power consumption           | 240mA (5V) (when the controller is connected) | 120mA (24V) (when the controller is connect |  |
| Moment of inertia           | 9×10 <sup>-4</sup> kgm² or less               |   |  |

Mitsubishi Flectric

23 bits (8,388,608 pulses/revolution)

5,000 min<sup>-1</sup>

Starting torque (at 20°C) Mass Approx. 2kg (rotor: 0.2kg/ stator: 1.7kg) or less

Compatible cables CH23-\*\*\*NPFA CH23-\*\*\*NPMA CH22-\*\*\*NSFY (types without relay connectors Maximum cable length 30 m 30 m 30 m

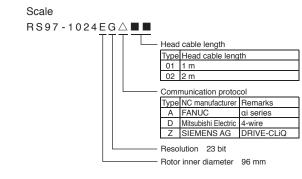
Compatible cables CH23-\*\*\*NPKA + CH23-\*\*\*NPFA CH23-\*\*\*NPKA + CH23-\*\*\*NPMA CH22-\*\*\*NSFF + CH22-\*\*\*NSFY (types with relay connectors)
Maximum cable length 30 m 30 m

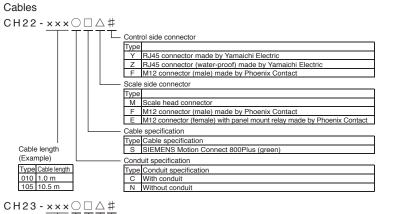
## Details of model designation

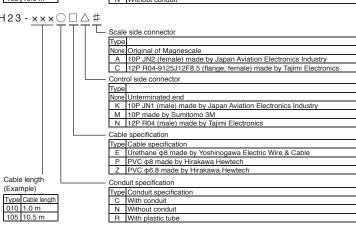
Compatible controllers

Maximum response revolutions

Resolution







18

SIEMENS AG

19