

2. Specifications

2-1. Rotary Magnescale Specifications

Item	RU74-4096A
Output signal	A/B quadrature signal·Reference point output signal (Full duplex: Compliant with EIA-422)
Detecting method	Magnetic (MR sensor)
Output wavelength	40 μm (λ)
Output wave number	4096 λ/revolution
System accuracy (at 20 °C)	±2.5 s
Resolution	See "1-4. Model name."
Minimum phase differential time setting (ns)	See "1-4. Model name."
Revolution direction	See "1-4. Model name."
Electrical allowable revolution	2000 min ⁻¹ (See "1-4. Model name.")
Mechanical allowable revolution	3000 min ⁻¹
Operating temperature range	0 to +60 °C
Storage temperature range	-10 to +60 °C
Vibration resistance	150 m/s ² (50 Hz to 2000 Hz)
Shock resistance	1000 m/s ² (11 ms)
Protective design grade	IP65
Power supply voltage	DC 4.75 - 5.25 V (At cable connection end)
Current consumption (at 120 Ω terminal)	200 mA or less
Inrush current	2 A max. (When the power supply rising time is 10 ms)
Power supply protection	In the case of errors such as a reverse-connected power supply or over-voltage, the internal fuse is cut to protect the power being supplied and wiring.
Safety standards and laws and regulations	FCC Part15 Subpart B Class A ICES-003 Class A Digital Device EN55011 Gp1 Class A, EN61000-6-2 Safety standards not applicable (60 V DC or less)
Dimensions	φ110 × 42 mm (See "7. Outside Dimensions.")
Cable length	Standard 1 m (maximum length of 15 m with extension cables)
Output connector	Male, round waterproof connector JB1DB 10PL2 by Japan Aviation Electronics Industry
Compliant connector	Female, round waterproof connector JB1HB 10SL2 by Japan Aviation Electronics Industry
Moment of inertia	9.4 × 10 ⁻⁵ kg·m ²
Starting torque (at 20 °C)	0.1 N·m or less
Mass	Approx. 1.2 kg

The information here is subject to change without notice.

2-2. Output Connector pin

Connector pin no.	Full duplex
1	A
2	-A
3	Z
4	-Z
5	B
6	-B
8	+5 V
10	0 V

2-3. Accessories

Hex. socket-head cap screws	M4 × 16	4
Flat washers	for M4	4
Installation Manual		1
Specifications Manual		1
Accuracy chart		1