Integrated Elevator Controller and Drive

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Encoders of Elevator Industry

Elevator Control System Expert
Professional Automation Solution Provider

Lets the Technology connect the world

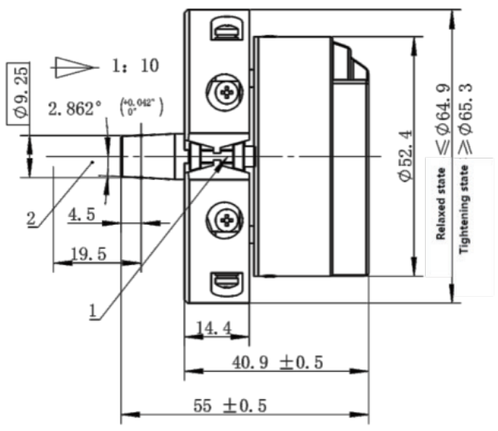
EROA52 Communication-Type Encoder

- Improved safety — Communication output mode that is highly resistant to interference and effectively prevents system malfunction caused by external interference.
- Ride Comfort — Built-in compensation technology ensures smoother elevator motion curves
- Easy Commissioning — Key parameters are mutually stored in the drive and encoder, eliminating post-installation tuning.
- Reliable Maintenance — Proprietary system protocol significantly reduces maintenance complexity.

Specifications

Electrical parameters		Environmental and mechanical parameters	
Supply voltage	DC5V±5%	EMC characteristics	IEC61000-4
Communication Protocol	RS485	Operating temperature	-40℃~100℃
Resolution	24Bit	Maximum humidity	⩽90%（40℃/21d,based on 60068 -2- 78）; no condensation
Protection level	IP 40	Impact properties	Between 10 and 55Hz, maintaining an amplitude of 1.5mm Between 55 and 2000 Hz, acceleration is 98 m/s2; XYZ 2 hours per axis, 6 hours in total
Communication frequency	⩽16K	Vibration characteristics	Impact acceleration 980m/s², 11ms； Impact 3 times in each direction, 18 times in total

Dimension



【Note】

1.Hexagon socket head screw M2.5, GB/T 70.1-2008, tightening torque 0.6~0.8Nm;

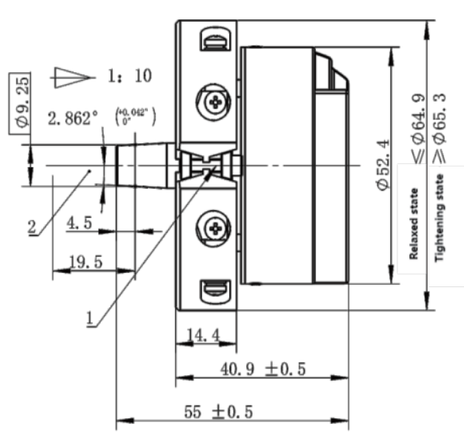
2. Hexagon socket head screw M5×50, GB/T 70.1-2008, tightening torque 5.0~5.5Nm.

EROI52 Sin-Cos Encoder

- Improved reliability — Compared with traditional mainstream solutions, this product adopts an absolute value solution, which can effectively avoid system failures caused by loss of original signals.2
- Improved usability — With electronic zeroing function, the encoder can be replaced on site without dynamic self-learning.
- Enhanced Compatibility — Seamlessly supports mainstream market installation methods, enabling effortless customer integration.

Electrical parameters		Environmental and mechanical parameters	
Supply voltage	DC5V±5%	EMC characteristics	IEC61000-4
Output waveform	Sine wave analog signal	Operating temperature	-40℃~120℃
Resolution	2048P/R	Maximum humidity	⩽90%（40℃/21d,based on 60068 -2- 78）; no condensation
Protection level	IP 40	Impact properties	Between 10 and 55Hz, maintain an amplitude of 1.5mm; Between 55 and 2000Hz, acceleration is 98m/s2; XYZ 2 hours per axis, 6 hours in total
Response frequency	⩽100kHZ	Vibration characteristics	Impact acceleration 980m/s², 11ms； Impact 3 times in each direction, 18 times in total

Dimension



【Note】

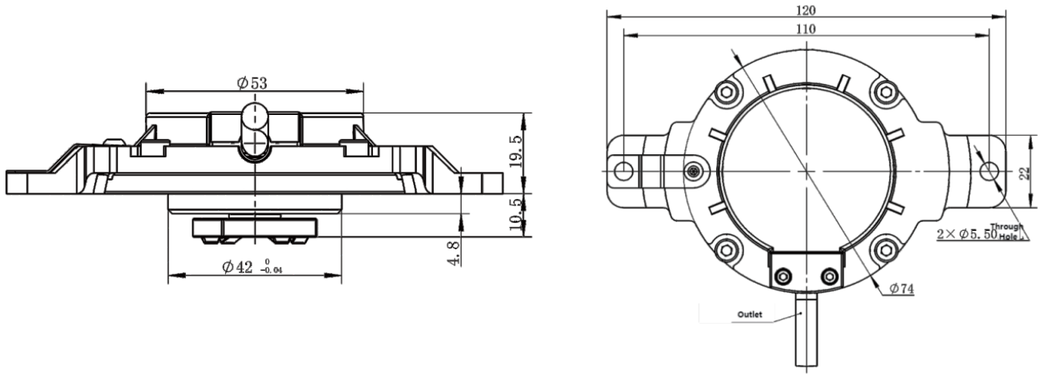
1.Hexagon socket head screw M2.5, GB/T 70.1-2008, tightening torque 0.6~0.8Nm;

2. Hexagon socket head screw M5×50, GB/T 70.1-2008, tightening torque 5.0~5.5Nm.

FEC105 Flying Dish Sin-Cos Encoder

- Ultra-Compact Design — Merely 19.5mm ultra-thin profile maximizes space efficiency while enabling effortless installation and maintenance.
- Ultimate Performance — High-Precision Optical Technology Enables Smoother Start-Stop and Operation Than Conventional Slim Solutions
- Ultimate Stability — Rigid Motor Coupling Eliminates Start-Stop Data Fluctuations and Inertial Interference from Flexible Connectors

Dimension



【Note】

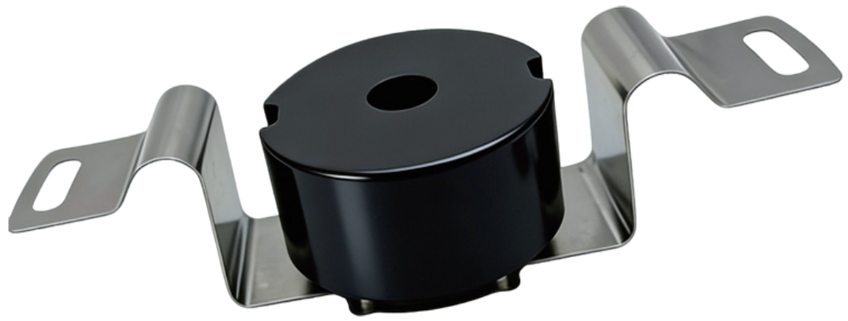
1、The encoder adopts the wire-throwing type, with a cable outer diameter of Φ6.5mm and a cable length of 0.5m.

Specifications

Electrical parameters		Environmental and mechanical parameters	
Supply voltage	DC5V±5%	EMC characteristics	IEC61000-4
Output waveform	Sine wave analog signal	Operating temperature	-40°C~100°C
Resolution	2048 P/R	Maximum humidity	≤90%（40°C/21d,based on 60068 -2- 78）; no condensation
Protection level	IP 54	Impact properties	Between 10 and 55Hz, maintaining an amplitude of 1.5mm Between 55 and 2000 Hz, acceleration is 98 m/s2; XYZ 2 hours per axis, 6 hours in total
Response frequency	≤100kHz	Vibration characteristics	Impact acceleration 980m/s^2，11ms； Impact 3 times in each direction, 18 times in total

ERO142 Sin-Cos Encoder

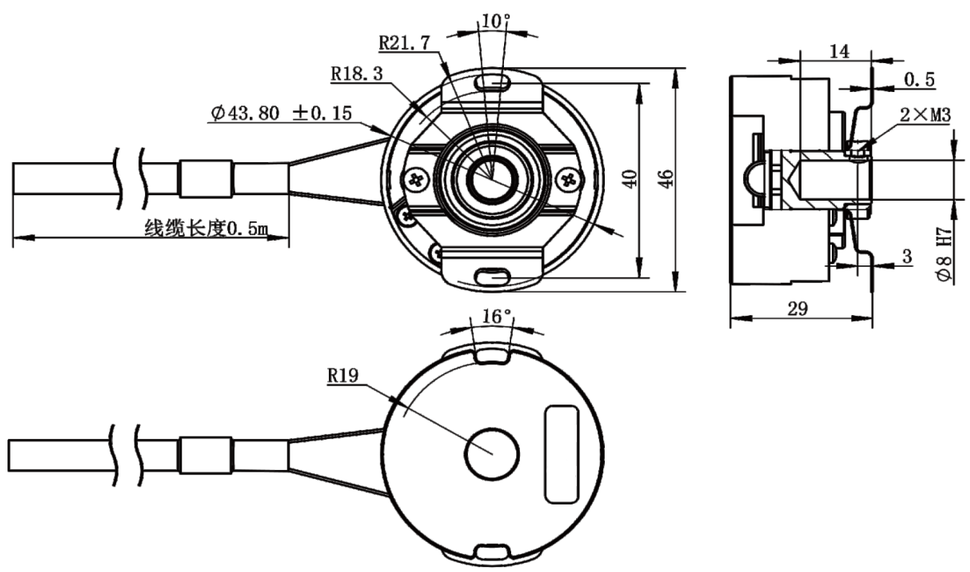
- Better size — With a height of 29mm, the height and size are optimized compared to similar models in the market, making it easy to fit and install.
- Flexible selection — Customers can freely choose the double-melamine connection type with different mounting sizes according to their own structure.

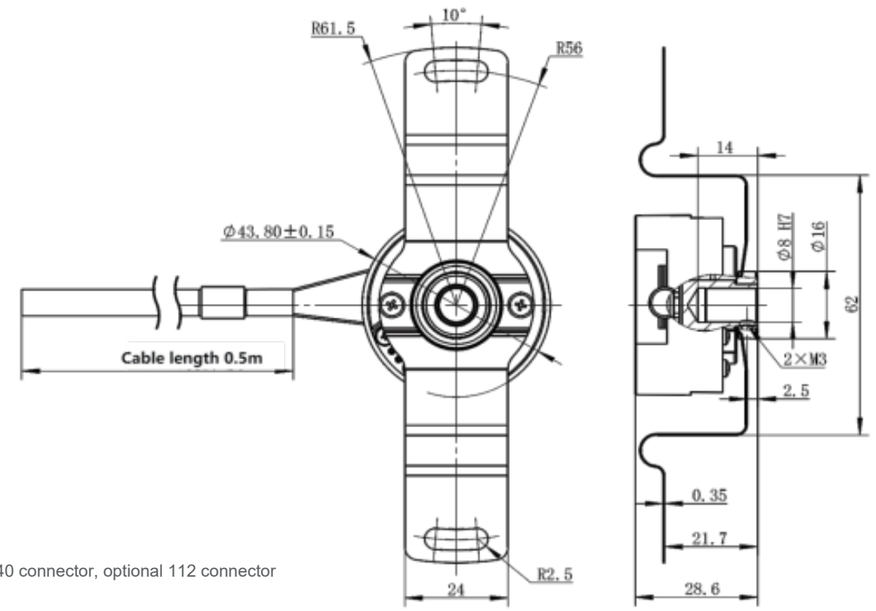


Specifications

Electrical parameters		Environmental and mechanical parameters	
Supply voltage	DC5V±5%	EMC characteristics	IEC61000-4
Output waveform	Sine wave analog signal	Operating temperature	-40°C~120°C
Resolution	2048 P/R	Maximum humidity	≤90%（40°C/21d,based on 60068 -2- 78）; no condensation
Protection level	IP 40	Impact properties	Between 10 and 55Hz, maintaining an amplitude of 1.5mm Between 55 and 2000 Hz, acceleration is 98 m/s2; XYZ 2 hours per axis, 6 hours in total
Response frequency	≤100kHz	Vibration characteristics	Impact acceleration 980m/s^2，11ms； Impact 3 times in each direction, 18 times in total

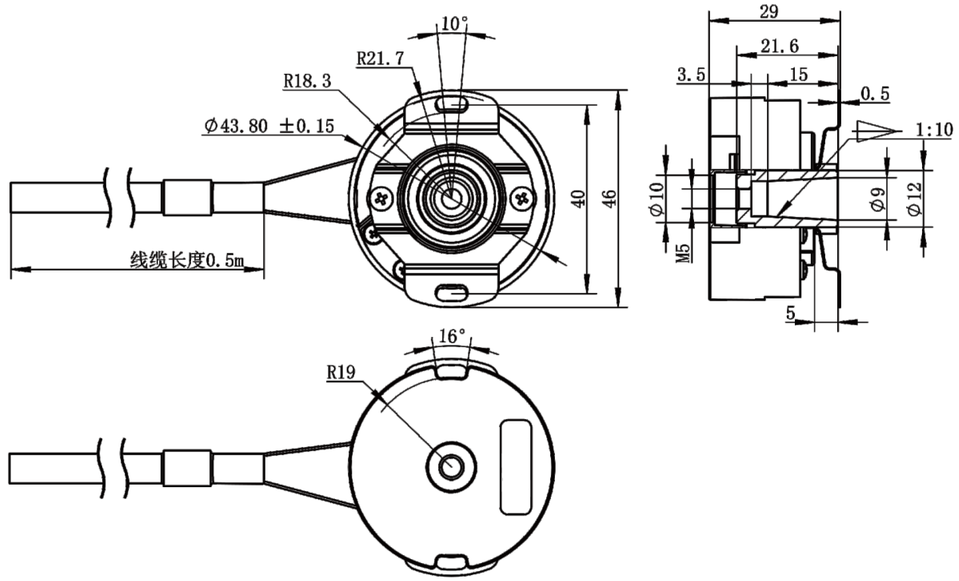
EROI42-2048P-PNISW5V straight shaft

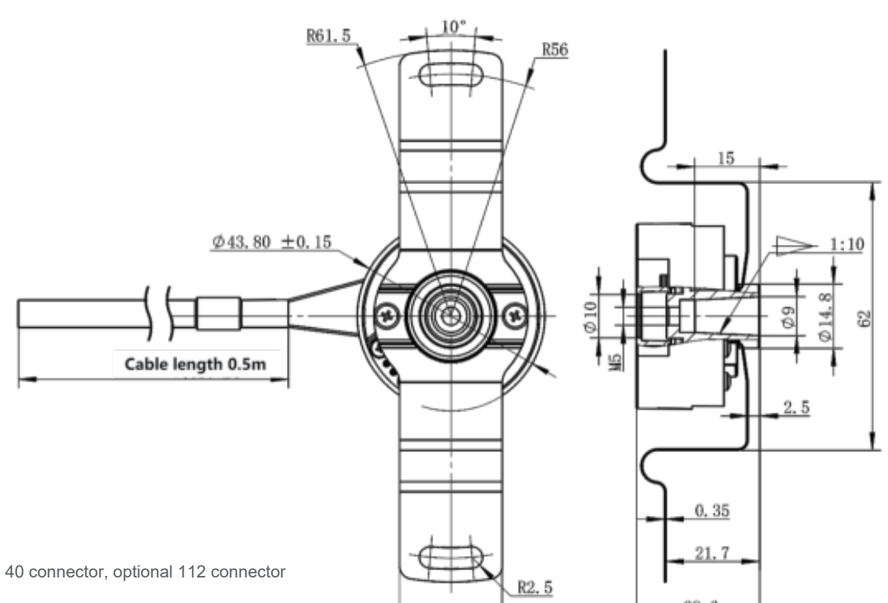




Standard 40 connector, optional 112 connector

EROI42-2048P-PNISW5V tapered shaft





Standard 40 connector, optional 112 connector