

机器人专用 编码器、关节扭矩产品介绍

Introduction to Robot-Specific
Encoders and Joint Torque Products



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致力传感技术, 推进工业文明

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! 本选型手册仅用于说明产品的相关信息, 如有更改恕不另行通知。如需要更多信息, 请随时和我们联系。

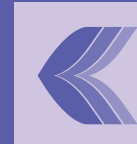
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浙江锐鹰传感技术股份有限公司
ZHEJIANG REAGLE SENSING TECHNOLOGY INCORPORATED

**Dedicated to sensing technology,
advancing industrial civilization.**

致力传感技术,推进工业文明

关于锐鹰 COMPANY PROFILE



“

锐鹰传感——专注工业领域传感技术,服务于中高端客户,是国内专业的传感产品及解决方案供应商。

Reagle Sensing is a specialized provider of sensing technology for the industrial sector, serving the mid-to-high-end market with professional products and comprehensive solutions.

”

公司拥有三大成熟的技术平台:光电技术平台、磁电技术平台及感应式技术平台。锐鹰传感以技术平台为基础,客户需求为导向,不断贴合应用场景,通过专业的方案设计,卓越的产品性能及精湛的生产工艺,为客户提供专业、可靠传感技术产品及解决方案。

累计近1300万台产品广泛应用于运动控制、高端机床、机器人、仓储物流、半导体、新能源、智慧电梯、交通工具等领域。

The company possesses three mature technology platforms: the Optoelectronic Technology Platform, Magnetolectric Technology Platform, and Inductive Technology Platform. Building on these technology platforms and driven by customer demand, Reagle Sensing continuously refines its offerings by tailoring them to specific application scenarios. Through professional solution design, outstanding product performance, and sophisticated manufacturing processes, we provide customers with specialized and reliable sensing technology products and solutions.

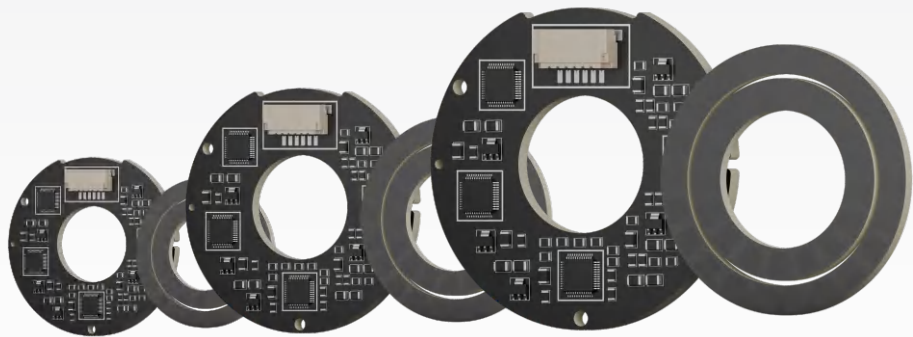
With nearly 13 million units deployed to date, Reagle Sensing products are widely used across sectors such as motion control, high-end machine tools, robotics, warehousing and logistics, semiconductors, renewable energy, smart elevators, and transportation.

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KIT系列同侧中空双编码器

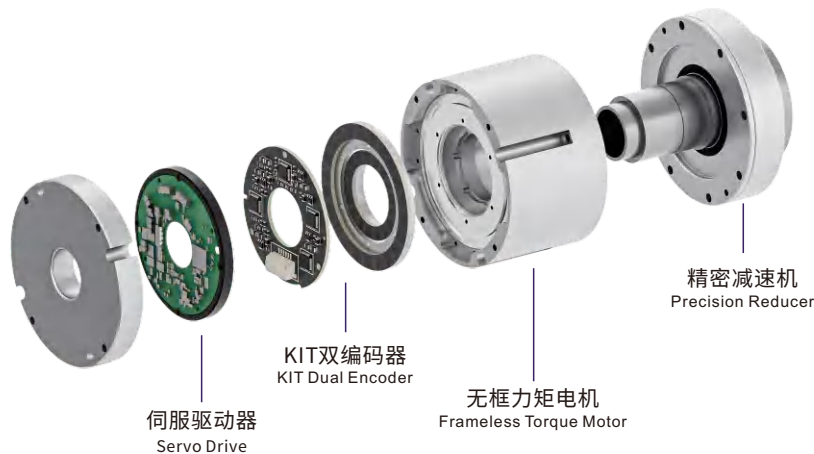
KIT Series Same-Side Inductive Dual Encoder



产品优势 Product Advantages

- ◆ **易** – 安装便捷, 气隙 $0.5\pm0.2\text{mm}$, 20秒即可完成校准, 大幅提升生产效率。
- ◆ **稳** – 年产500万台, 市占率近30%, 供货稳定, 交付有保障。
- ◆ **固** – 抗电机轴窜 $\pm0.2\text{mm}$, 工作温度 $-40^{\circ}\text{C}\sim125^{\circ}\text{C}$, 无惧粉尘、油污、水汽, 适应恶劣环境。
- ◆ **准** – 重复定位精度 ±10 角秒, 助力整机定位精度提升。
- ◆ **薄** – 安装后整体高度仅 5.6mm , 便于电机小型化、轻量化
- ◆ **Easy** – Easy mounting with $0.5\pm0.2\text{mm}$ air gap; calibration in just 20 seconds – greatly improves production efficiency.
- ◆ **Stable** – 5 million units annual capacity with ~30% market share – stable supply and reliable delivery.
- ◆ **Robust** – Withstands motor shaft excursion up to $\pm0.2\text{mm}$, operating temperature from -40°C to 125°C , resistant to dust, oil, and moisture – built for harsh environments.
- ◆ **Accurate** – Repeatability of ±10 arcsec – enhances overall positioning accuracy.
- ◆ **Slim** – Ultra-thin design with total height of only 5.6mm after mounting – enables smaller and lighter motors.

安装示意图 Installation Diagram

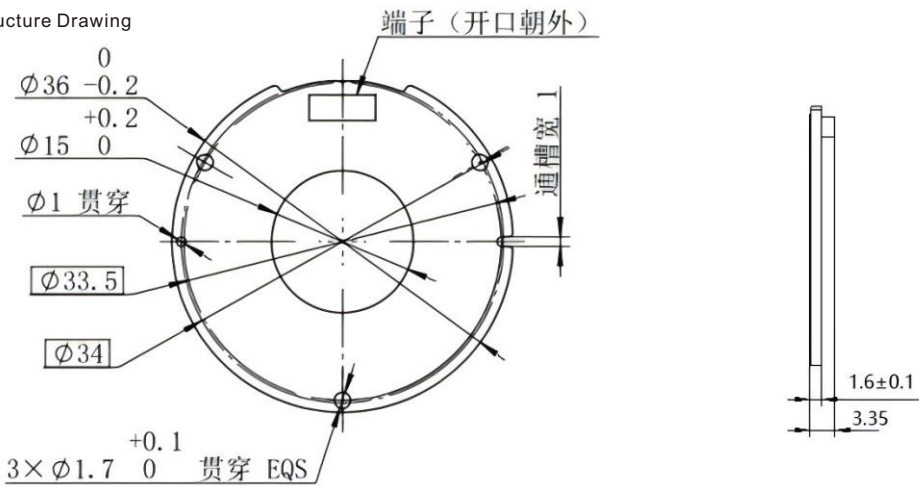


参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	DC5V $\pm$ 5%
分辨率 Resolution	外圈17bit;内圈23bit, 伪多圈16bit (可选) Outer ring: 17-bit; inner ring: 23-bit (16-bit pseudo multi-turn optional)
通讯规格 Communication specification	RS485/BISS-C/SPI
通讯频率 Communication frequency	$\leq 20\text{kHz}$
重复精度 Repetitive positioning accuracy	± 10 角秒 arc-sec
波特率 Baud rate	5Mbps/2.5Mbps
推荐安装间距 Recommended Mounting Gap	$0.5\pm0.2\text{mm}$
输入轴允许偏差 Allowable deviation of input shaft	径向(同心度) Radial (concentricity) $\pm 0.1\text{mm}$ 轴向(平行度) Axial (parallelism) $\pm 0.05\text{mm}$ 窜动 Shaft excursion $\pm 0.15\text{mm}$
主轴转速 Maximum rotational speed	$\leq 6000\text{rpm}$
工作温度 Operating temperature	$-40^{\circ}\text{C}\sim 105^{\circ}\text{C}$ ($-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$ 可选optional)
储存温度 Storage temperature	$-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$
相对湿度 Humidity	$\leq 90\%$ 无结露 No Condensing
电磁兼容性 EMC	GB/T17626-5、GB/T17626-4、GB/T17626-3、GB/T17626-2
冲击特性 Shock	冲击加速度 980m/s^2 , 11ms; 每方向冲击 3 次, 共 18 次 Impact acceleration 980m/s^2 , 11ms; 3 times per direction, total 18 times
振动特性 Vibration	10 至 55Hz 之间, 保持振幅 1.5mm; The amplitude is 1.5mm between 10 ~ 55Hz; 55 至 2000Hz 之间, 加速度为 98m/s^2 ; Acceleration of 98m/s^2 between 55~2000Hz; XYZ 每轴向 2 小时, 共 6 小时 2 hours per axial (XYZ).

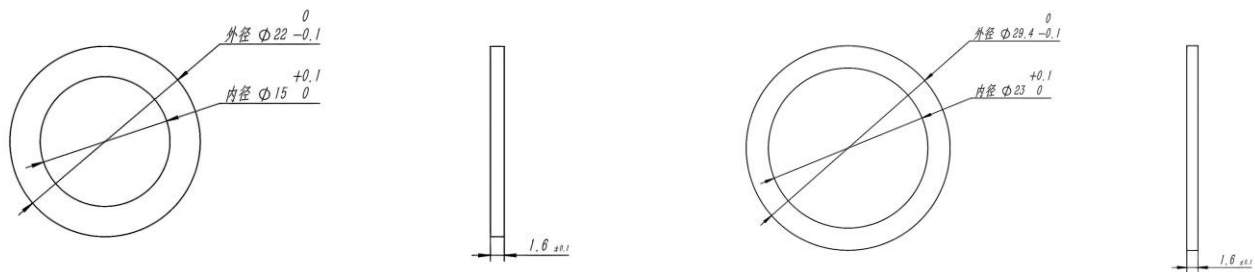
结构图 Structure Diagram

• 定子结构图 Stator Structure Drawing



结构图 Structure Diagram

- 轴1端(减速机端) 转子尺寸图
- Dimension Drawing of Rotor at Shaft 1 End (Reducer Side)
- 轴2端(电机端) 转子尺寸图
- Dimension Drawing of Rotor at Shaft 2 End (Motor Side)



尺寸配置 Dimensions Configuration

型号 Model	定子内外径 (mm) Stator inner/outer diameter	定子板厚(mm) Stator plate thickness	外圈 Outer Ring		内圈 Inner Ring	
			转子码盘内外径 Rotor code disc inner/outer diameter	转子码盘厚度 Rotor code disc thickness	转子码盘内外径 Rotor code disc inner/outer diameter	转子码盘厚度 Rotor code disc thickness
KIT27	Φ8/27	1.6	Φ15/21	1.6	Φ8/14	1.6
KIT31	Φ10/31	1.6	Φ18/25	1.6	Φ10/17	1.6
KIT36	Φ15/36	1.6	Φ23/30	1.6	Φ15/22	1.6
KIT41	Φ20/41	1.6	Φ28/35	1.6	Φ20/37	1.6
KIT46	Φ25/46	1.6	Φ33/40	1.6	Φ25/32	1.6
KIT54	Φ30/54	1.6	Φ39/47	1.6	Φ30/38	1.6
KIT64	Φ40/64	2.0	Φ49/57	1.6	Φ40/48	1.6

KID系列异侧中空双编码器

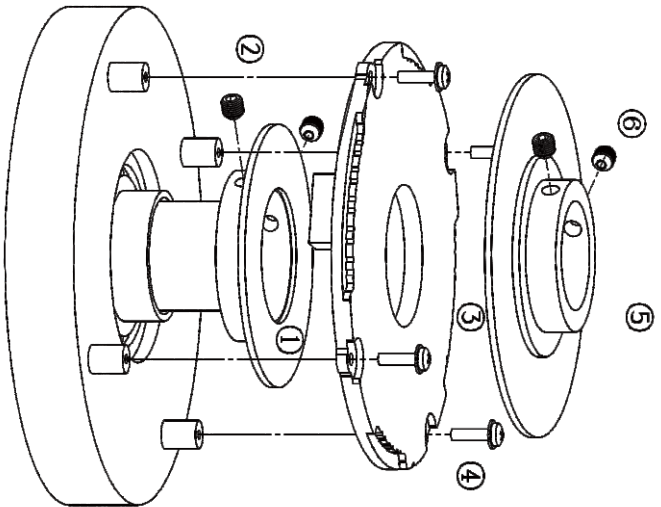
KID Series Opposite-Side Inductive Dual Encoder



产品优势 Product Advantages

- ◆ 高精度, 重复定位精度<±10角秒
- ◆ 高动态响应, 有效分辨率>17bit
- ◆ 集成双读头设计, 单接口双输出, 尺寸安装更紧凑
- ◆ High precision, repeatability < ±10 arcsec
- ◆ High dynamic response, effective resolution > 17 bits
- ◆ Integrated dual readhead design, single interface with dual output, more compact size and mounting

安装示意图 Installation Diagram

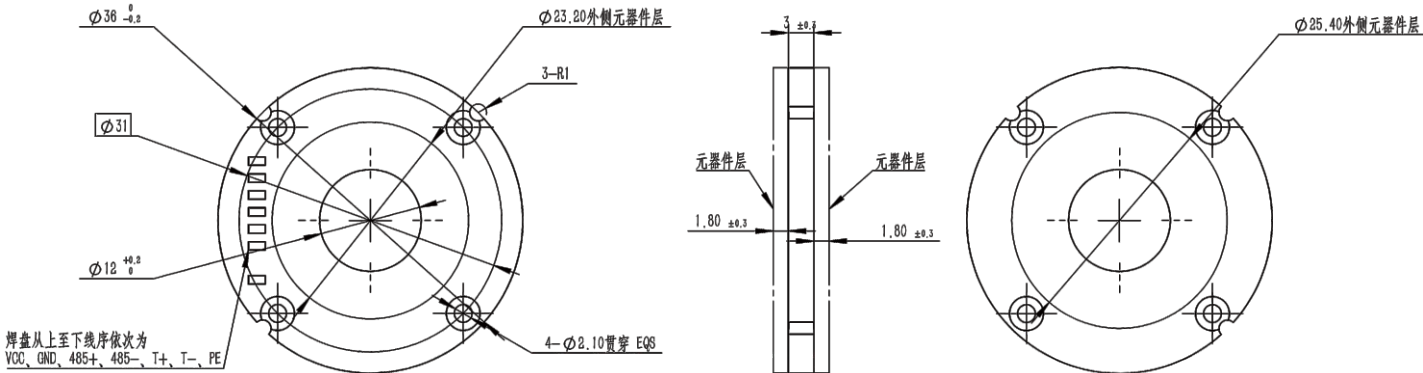


参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	DC5V±5%
分辨率 Resolution	单圈23bit; 伪多圈10bit (可选) 23-bit single-turn; 10-bit pseudo multi-turn (optional)
通讯规格 Communication specification	RS485/BISS-C/SPI
通讯频率 Communication frequency	≤16kHz
重复精度 Repetitive positioning accuracy	电机端: ≤ ±10 角秒 arc-sec; 减速机端: ≤ ±8 角秒 arc-sec
波特率 Baud rate	2.5Mbps
推荐安装间距 Recommended Mounting Gap	0.5±0.2mm
输入轴允许偏差 Allowable deviation of input shaft	径向: ≤ ±0.03mm Radial: ≤ ±0.03 mm 轴向: ≤ ±0.3mm (在不与定子干涉条件下) Axial: ≤ ±0.3 mm (provided no interference with the stator)
主轴转速 Maximum rotational speed	≤6000rpm
工作温度 Operating temperature	-20℃~105℃ (-40℃~125℃可选optional)
储存温度 Storage temperature	-40℃~125℃
相对湿度 Humidity	≤95% 无结露 No Condensing
电磁兼容性 EMC	GB/T17626-5、GB/T17626-4、GB/T17626-3、GB/T17626-2
冲击特性 Shock	冲击加速度 980m/s ² , 11ms; 每方向冲击 3 次, 共 18 次 Impact acceleration 980m/s ² , 11ms; 3 times per direction, total 18 times
振动特性 Vibration	10 至 55Hz 之间, 保持振幅 1.5mm; The amplitude is 1.5mm between 10 ~ 55Hz; 55 至 2000Hz 之间, 加速度为 98m/s ² ; Acceleration of 98m/s ² between 55~2000Hz; XYZ 每轴向 2 小时, 共 6 小时 2 hours per axial (XYZ).

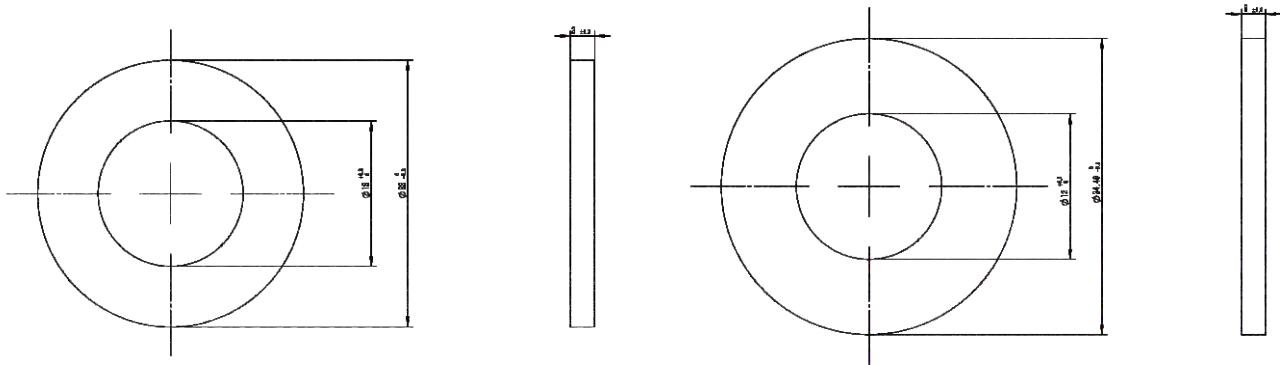
结构图 Structure Diagram

- 定子结构图 Stator Structure Drawing



结构图 Structure Diagram

- 轴1端(减速机端)转子尺寸图
- 轴2端(电机端)转子尺寸图
- Dimension Drawing of Rotor at Shaft 1 End (Reducer Side)
- Dimension Drawing of Rotor at Shaft 2 End (Motor Side)



尺寸配置 Dimensions Configuration

型号 Model	定子内外径 (mm) Stator inner/outer diameter	定子板厚 (mm) Stator plate thickness	大转子 Large Rotor		小转子 Small Rotor	
			转子码盘内外径 Rotor code disc inner/outer diameter	转子码盘厚度 Rotor code disc thickness	转子码盘内外径 Rotor code disc inner/outer diameter	转子码盘厚度 Rotor code disc thickness
KID36	$\phi 12/36$	1.6	$\phi 12/24.4$	1.6	$\phi 12/22$	1.6
KID44	$\phi 14/44$	1.6	$\phi 14/32$	1.6	$\phi 14/18$	1.6
KID58	$\phi 14/58$	1.6	$\phi 26/46$	1.6	$\phi 14/30$	1.6
KID60	$\phi 18/60$	1.6	$\phi 20/49$	1.6	$\phi 16/34.5$	1.6
KID62	$\phi 20/62$	1.6	$\phi 23/51$	1.6	$\phi 19/37$	1.6
KID74	$\phi 25/74$	1.6	$\phi 29.5/64$	1.6	$\phi 28/49.5$	1.6
KID87	$\phi 35/87$	1.6	$\phi 39.5/67$	1.6	$\phi 35.5/64$	1.6

KIZ系列窄码道电感编码器

KIZ Series Narrow Track Inductive Encoder



产品优势 Product Advantages

- ◆ **精准** – 单圈23bit分辨率, 重复定位精度高达±10角秒, 满足机器人平滑灵活运动控制
- ◆ **易装配** – 安装气隙0.5±0.2mm, 安装冗余大
- ◆ **调试便捷** – 一键调试, 数秒完成, 提升生产效率
- ◆ **轻薄** – 超小尺寸, 窄码道设计, 易于系统集成
- ◆ **稳定性强** – 感应式原理, 轻松抵御低频杂波干扰; 可在-40℃至125℃宽温下稳定运行
- ◆ **Precision** – 23bit single-turn resolution with repeatability of ±10 arcsec enables smooth and flexible robot motion control.
- ◆ **Easy assembly** – Mounting air gap of 0.5±0.2 mm provides large installation tolerance.
- ◆ **Quick commissioning** – One-key commissioning completed in seconds, boosting production efficiency.
- ◆ **Slim and light** – Ultra-compact size with narrow-track design for easy system integration.
- ◆ **High stability** – Inductive sensing principle easily rejects low-frequency interference; operates reliably from -40℃ to 125℃.

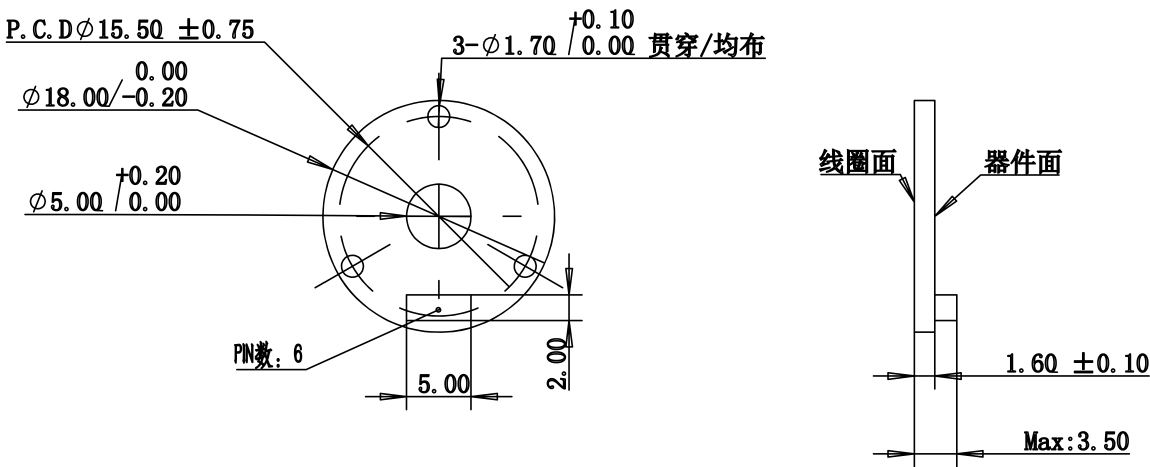
参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	DC5V±5%
分辨率 Resolution	单圈17/23bit; 伪多圈16bit (可选) 23-bit single-turn; 16-bit pseudo multi-turn (optional)
通讯规格 Communication specification	RS485/BISS-C/SPI
通讯频率 Communication frequency	≤20kHz

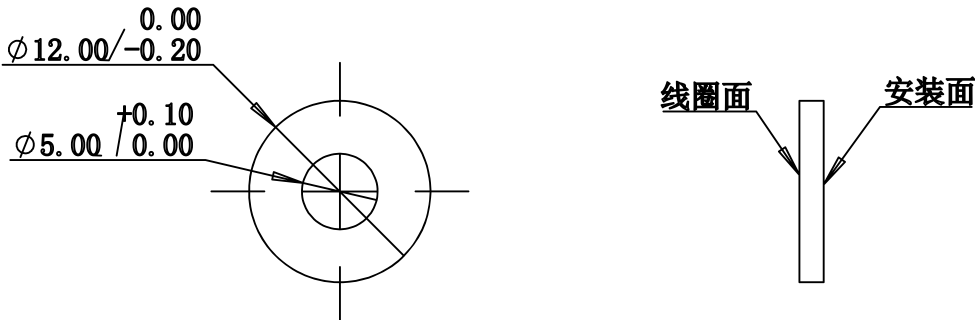
类别 Category	参数 Parameter
重复精度 Repetitive positioning accuracy	±10 角秒 arc-sec
波特率 Baud rate	5Mbps/2.5Mbps
推荐安装间距 Recommended Mounting Gap	0.5±0.2mm
主轴转速 Maximum rotational speed	≤6000rpm
工作温度 Operating temperature	-40℃~105℃ (-40℃~125℃可选optional)
储存温度 Storage temperature	-40℃~125℃
相对湿度 Humidity	≤95% 无结露 No Condensing
电磁兼容性 EMC	GB/T17626-5、GB/T17626-4、GB/T17626-3、GB/T17626-2
冲击特性 Shock	冲击加速度 980m/s ² , 11ms; 每方向冲击 3 次, 共 18 次 Impact acceleration 980m/s ² , 11ms; 3 times per direction, total 18 times
振动特性 Vibration	10 至 55Hz 之间, 保持振幅 1.5mm; The amplitude is 1.5mm between 10 ~ 55Hz; 55 至 2000Hz 之间, 加速度为 98m/s ² ; Acceleration of 98m/s ² between 55~2000Hz; XYZ 每轴向 2 小时, 共 6 小时 2 hours per axial (XYZ).

结构图 Structure Diagram

• 定子结构图 Stator Structure Drawing



• 转子尺寸图



尺寸配置 Dimensions Configuration

型号 Model	定子内外径 (mm) Stator inner/outer diameter	定子板厚(mm) Stator plate thickness	转子码盘内外径 Rotor code disc inner/outer diameter	转子码盘厚度 Rotor code disc thickness
KIZ18(17bit)	Φ5/18	1.6	Φ5/12	1.6
KIZ23(17bit)	Φ10/23	1.6	Φ10/17	1.6
KIZ28(17bit)	Φ15/28	1.6	Φ15/22	1.6
KIZ33(23bit)	Φ20/23	1.6	Φ20/27	1.6
KIZ38(23bit)	Φ25/38	1.6	Φ25/32	1.6
KIZ43(23bit)	Φ30/43	1.6	Φ30/37	1.6
KIZ48(23bit)	Φ35/48	1.6	Φ35/42	1.6
KIZ53(23bit)	Φ40/53	1.6	Φ40/47	1.6
KIZ58(23bit)	Φ45/58	1.6	Φ45/52	1.6
KIZ63(23bit)	Φ50/63	1.6	Φ50/57	1.6
KIZ68(23bit)	Φ55/68	1.6	Φ55/62	1.6
KIZ73(23bit)	Φ60/73	1.6	Φ60/67	1.6
KIZ78(23bit)	Φ65/78	1.6	Φ65/72	1.6
KIZ83(23bit)	Φ70/83	1.6	Φ70/77	1.6

KIE系列中空电感编码器

KIE Series Hollow Inductive Encoder



产品优势 Product Advantages

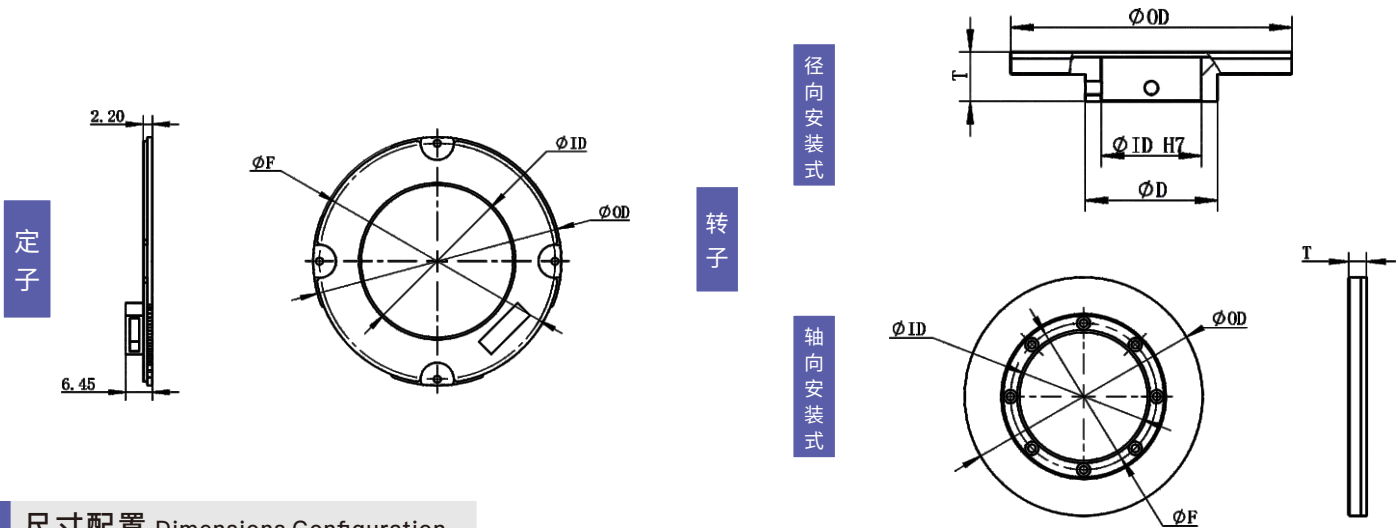
- ◆ 超薄设计, 厚度仅有9.9mm, 满足极致空间应用
- ◆ 高精度重复定位精度达±3角秒
- ◆ 分布式感应读头设计, 安装容差大, 降低安装公差对精度的影响
- ◆ Ultra-slim design with a thickness of only 9.9 mm, suitable for extreme space-constrained applications.
- ◆ High precision with repeatability of ±3 arcsec.
- ◆ Distributed sensing readhead design offers large installation tolerance, reducing the impact of mounting tolerances on accuracy.

参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	DC5V±5%
分辨率 Resolution	单圈最大支持23bit, 17bit兼容; 多圈支持16bit Single-turn supports up to 23 bits with 17-bit compatibility; multi-turn supports 16 bits.
通讯规格 Communication specification	RS485/SPI
通讯频率 Communication frequency	≤16kHz
重复精度 Repetitive positioning accuracy	±3 角秒 arc-sec

类别 Category	参数 Parameter
波特率 Baud rate	RS485:2.5Mbps;SSI:2.5Mbps
主轴转速 Maximum rotational speed	≤6000rpm
工作温度 Operating temperature	-40℃~85℃ (-40℃~125℃可选optional)
相对湿度 Humidity	≤90% (40℃/21d, 基于 EN 60068-2-78) 无结露 No Condensing
冲击特性 Shock	冲击加速度 980m/s ² , 11ms; 每方向冲击 3 次, 共 18 次 Impact acceleration 980m/s ² , 11ms; 3 times per direction, total 18 times
振动特性 Vibration	10 至 55Hz 之间, 保持振幅 1.5mm; The amplitude is 1.5mm between 10 ~ 55Hz; 55 至 2000Hz 之间, 加速度为 98m/s ² ; Acceleration of 98m/s ² between 55~2000Hz; XYZ 每轴向 2 小时, 共 6 小时 2 hours per axial (XYZ).

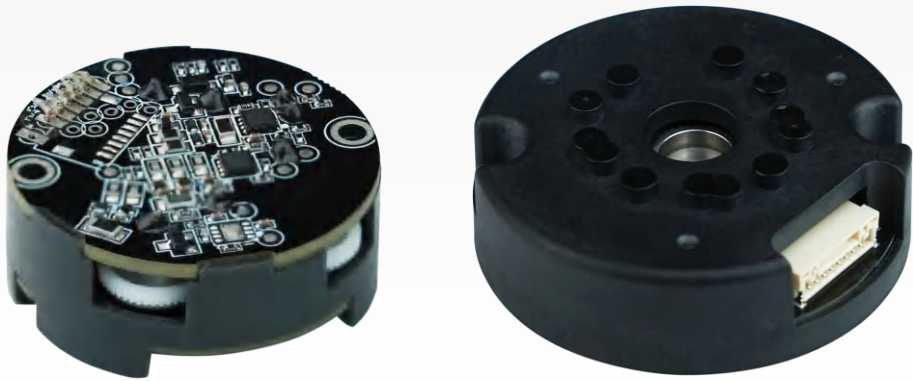
结构图 Structure Diagram



尺寸配置 Dimensions Configuration

型号 Model	定子尺寸 Stator Size (mm)		转子尺寸 Rotor Size (mm)		
	外径 Outer diameter	内径 Inner diameter	安装方式 Mounting Type	外径 Outer diameter	内径 Inner diameter
KIE90 (单圈/多圈) (Single-turn/Multi-turn)	90	53	轴向 Axial	76.7	50
			径向 Radial	76.7	50
KIE71 (单圈/多圈) (Single-turn/Multi-turn)	71	49	轴向 Axial	62	41.5
			径向 Radial	62	43
KIE60 (单圈/多圈) (Single-turn/Multi-turn)	60	36	轴向 Axial	52	28
			径向 Radial	52	34
KIE52 (单圈/多圈) (Single-turn/Multi-turn)	52	25	轴向 Axial	38	17
			径向 Radial	38	18
KIE38 (单圈 Single-turn)	38	14	径向 Radial	29	12.7
KIE35 (单圈 Single-turn)	35	12	径向 Radial	26.4	11

WIN系列机械多圈编码器
WIN Series Mechanical Multi-Turn Encoder



产品优势 Product Advantages

- ◆ 机械多圈技术, 无需电池维护
- ◆ 超薄设计, 高度为15.5mm, 充分释放轴向空间
- ◆ 安全可靠, 环境耐受性好
- ◆ Mechanical multi-turn technology, no battery maintenance required
- ◆ Ultra-slim design with a height of 15.5 mm, freeing up axial space
- ◆ Safe and reliable with excellent environmental tolerance

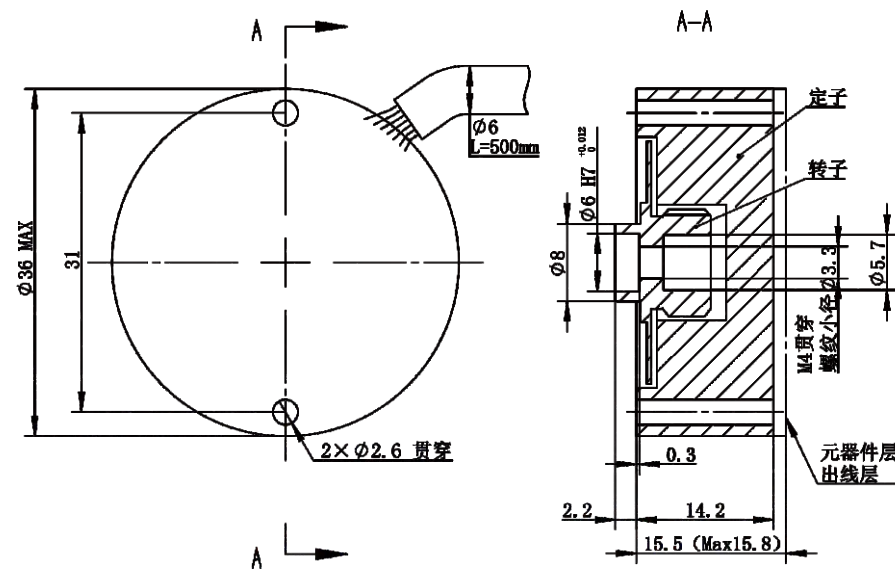
参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	DC5V±5%
分辨率 Resolution	单圈支持17bit; 多圈支持12bit 17-bit single-turn; 12-bit multi-turn
通讯规格 Communication specification	WIN36: RS485、SSI; WIN48: RS485、BISS-C
通讯频率 Communication frequency	≤16kHz
重复精度 Repetitive positioning accuracy	±5 角秒 arc-sec
波特率 Baud rate	RS485:2.5Mbps;BISS:最大支持10Mbps (up to 10 Mbps)

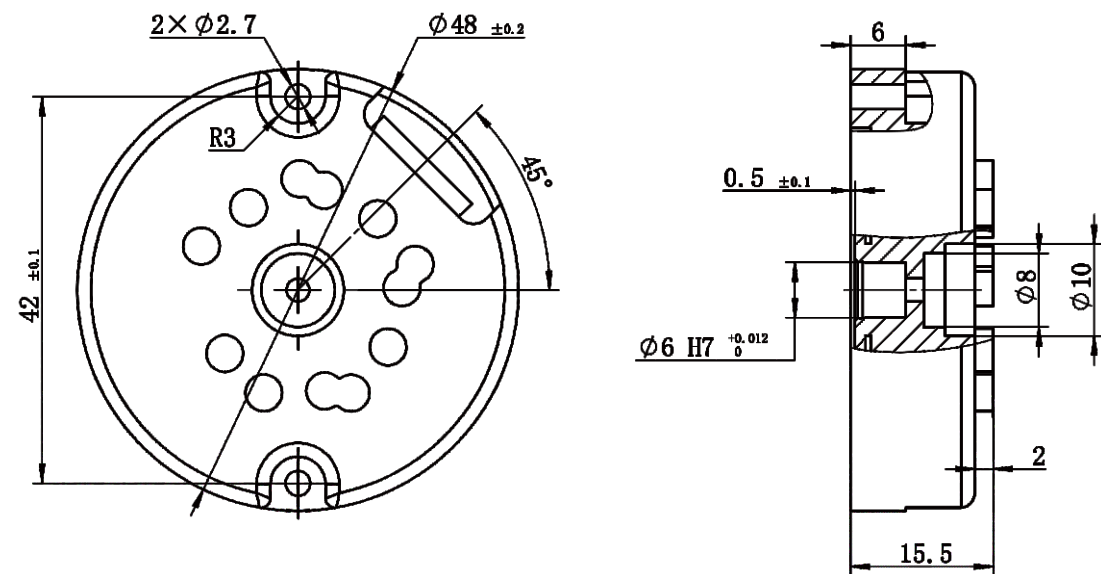
类别 Category	参数 Parameter
防护等级 IP Rating	IP40
主轴转速 Maximum rotational speed	≤6000rpm
工作温度 Operating temperature	-20℃~+105℃ (-40℃可选 optional)
相对湿度 Humidity	≤90% (40℃/21d, 基于 EN 60068-2-78) 无结露 No Condensing
冲击特性 Shock	冲击加速度 980m/s^2 , 11ms; 每方向冲击 3 次, 共 18 次 Impact acceleration 980m/s^2 , 11ms; 3 times per direction, total 18 times
振动特性 Vibration	10 至 55Hz 之间, 保持振幅 1.5mm; The amplitude is 1.5mm between 10~55Hz; 55 至 2000Hz 之间, 加速度为 98m/s^2 ; Acceleration of 98m/s^2 between 55~2000Hz; XYZ 每轴向 2 小时, 共 6 小时 2 hours per axial (XYZ).

结构图 Structure Diagram

- WIN36



- WIN48



TO系列关节扭矩传感器码器—磁弹性

TO Series Joint Torque Sensor—Magnetoelastic



产品优势 Product Advantages

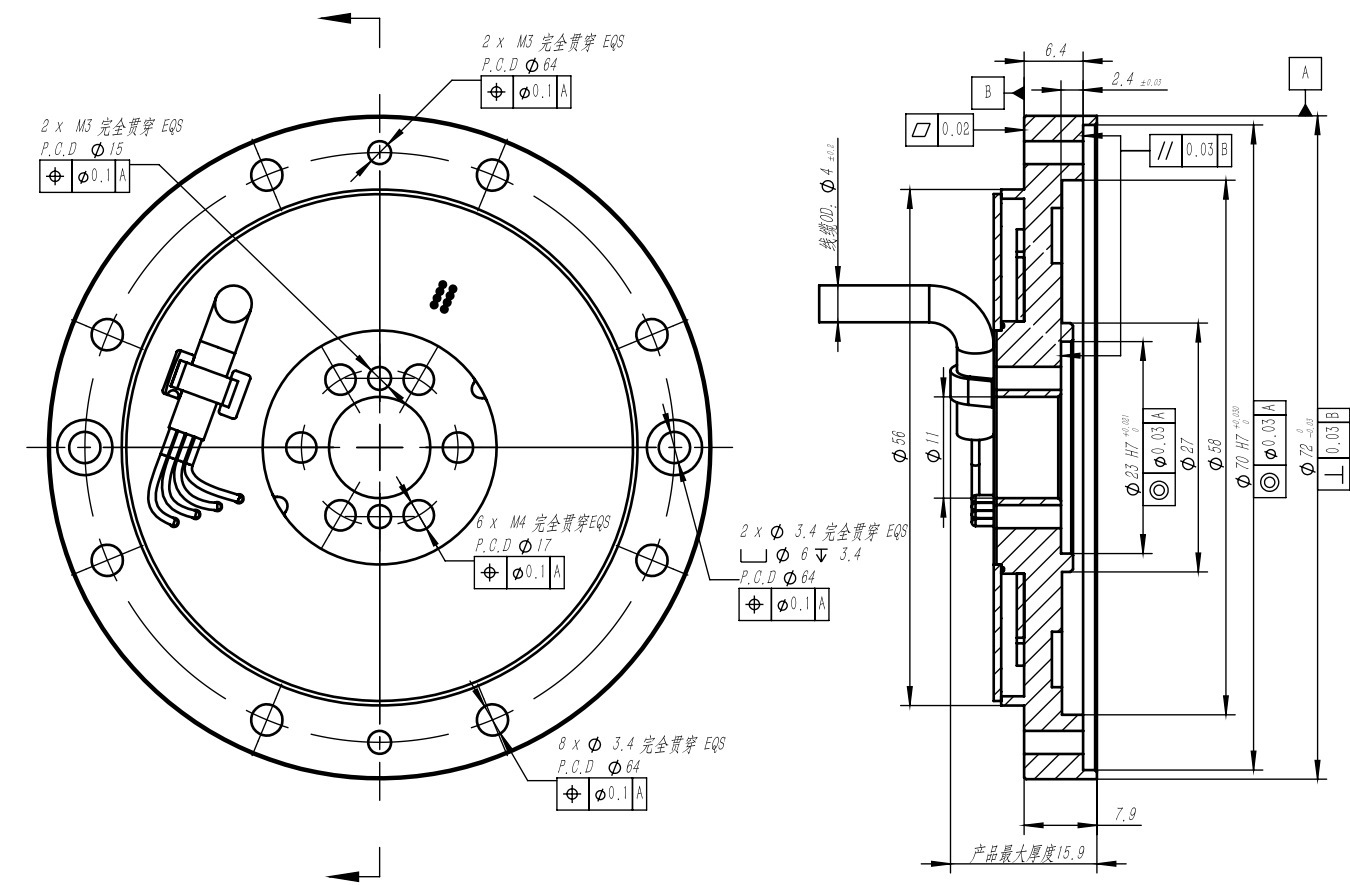
- ◆ 全区域面感应, 抗窜扰能力显著提升
- ◆ 非接触式测量, 无磨损, 抗疲劳, 寿命长
- ◆ 制程简单, 支持大规模生产, 一致性高
- ◆ Full-area surface sensing significantly improves resistance to shaft excursion interference.
- ◆ Non-contact measurement, no wear, fatigue-resistant, and long service life.
- ◆ Simple manufacturing process, supports mass production with high consistency.

参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	$5 \pm 0.15\text{V}$
分辨率 Resolution	$\pm 0.2\% \text{ F.S.}$
非线性 Nonlinearity	$\pm 0.5\% \text{ F.S.}$
重复性 Repeatability	$\pm 0.5\% \text{ F.S.}$
迟滞 Hysteresis	$\pm 0.5\% \text{ F.S.}$
零点漂移 Zero drift	$\pm 0.5\% \text{ F.S.}$
温度漂移 Temperature drift	$\pm 0.5\% \text{ F.S.}$

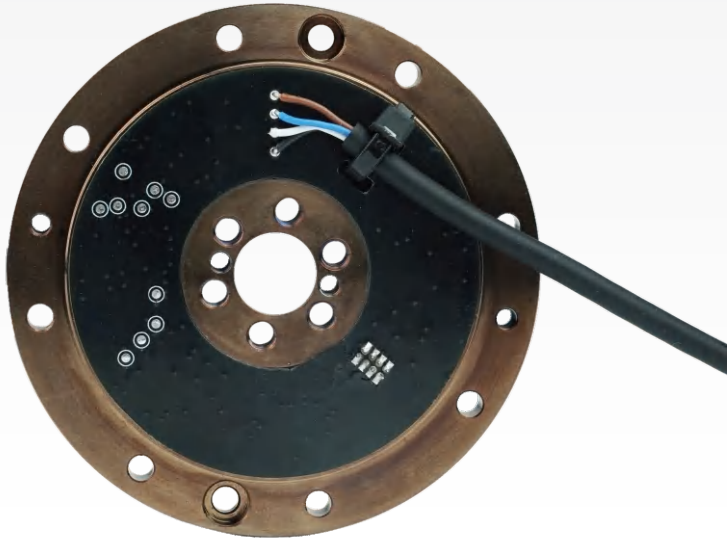
类别 Category	参数 Parameter
正反回零 Forward/reverse return-to-zero error	±0.5% F.S.
窜扰误差 Shaft excursion error	±0.5% F.S.
安全超载 Safe overload	≥200% F.S.
极限超载 Ultimate overload	≥300% F.S.
24h蠕变 24h creep	1% F.S.
采样频率 Sampling frequency	≤1 kHz
输出方式 Output interface	RS485, 模拟量analog
工作温度（系数） Temperature coefficient	±0.05% F.S./°C
防护等级 IP Rating	IP54
工作温度 Operating temperature	-20°C~80°C
电磁兼容性 EMC	GB/T17626-5、GB/T17626-4、GB/T17626-3、GB/T17626-2

结构图 Structure Diagram



TO系列关节扭矩传感器码器—MEMS

TO Series Joint Torque Sensor—MEMS



产品优势 Product Advantages

- ◆ 精度高、温漂小、抗窜扰、抗冲击、可靠性高
- ◆ High accuracy
- ◆ Low temperature drift
- ◆ Shaft excursion immunity
- ◆ High shock resistance
- ◆ High reliability

参数规格 Specifications

类别 Category	参数 Parameter
电源电压 Supply voltage	5±0.15V
分辨率 Resolution	±0.2% F.S.
非线性 Nonlinearity	±0.5% F.S.
重复性 Repeatability	±0.5% F.S.
迟滞 Hysteresis	±0.5% F.S.
零点漂移 Zero drift	±0.5% F.S.
温度漂移 Temperature drift	±0.5% F.S.

类别 Category	参数 Parameter
正反回零 Forward/reverse return-to-zero error	±0.5% F.S.
窜扰误差 Shaft excursion error	±0.5% F.S.
安全超载 Safe overload	≥200% F.S.
极限超载 Ultimate overload	≥300% F.S.
24h蠕变 24h creep	1% F.S.
采样频率 Sampling frequency	≤1 kHz
输出方式 Output interface	RS485, 模拟量analog
工作温度（系数） Temperature coefficient	±0.05% F.S./°C
防护等级 IP Rating	IP54
工作温度 Operating temperature	-20°C~80°C
电磁兼容性 EMC	GB/T17626-5、GB/T17626-4、GB/T17626-3、GB/T17626-2

结构图 Structure Diagram

