Lyra™
Incremental Magnetic Encoder System

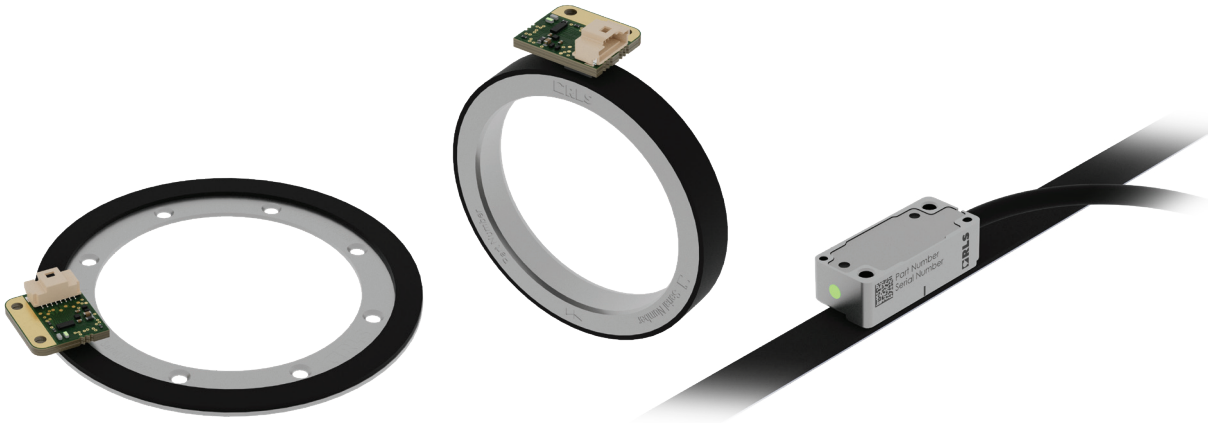
LINEAR AND ROTARY

MINIATURE DESIGN

PRECISE FEEDBACK

Lyra™ is a next-generation incremental magnetic encoder platform that delivers high-performance position feedback for linear and rotary motion applications.

Available as either a compact PCB-level module or a robust IP67-rated housed readhead, it combines high-resolution with flexible integration options. Compatible with linear scales and axial and radial magnetic rings, Lyra™ provides reliable position feedback across a wide range of industrial applications.



Why choose Lyra?

- Linear and rotary (axial and radial) sensing
- High resolution down to 0.1 µm
- High-speed position feedback
- Multiple incremental output options
- High precision and reliability
- Two readhead variants
- Great design flexibility
- Easy OEM installation
- Compatibility with standard controllers
- Suitable for demanding environments

MACHINE TOOL | ASSEMBLY LINES | INDUSTRIAL AUTOMATION | GIMBALS | ROBOTICS

RLS d. o. o.
Poslovna cona Žeje pri Komendi
Pod vrbami 2
SI-1218 Komenda, Slovenia

T: +386 1 5272100
E: mail@rls.si
www.rls.si

A RENISHAW associate company

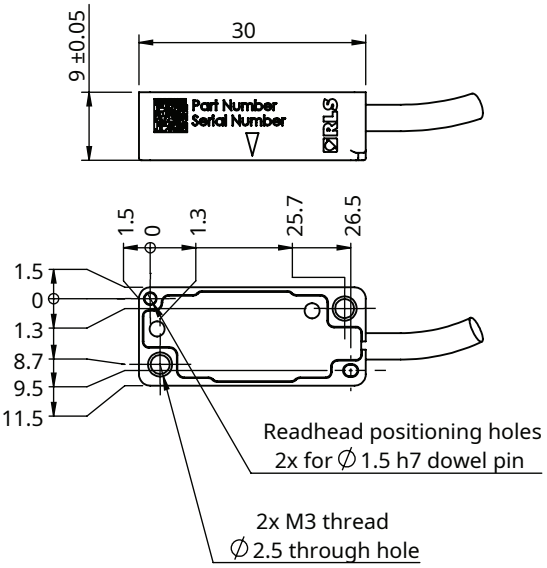
Lyra™ technical specifications

System data	
Measurement type	Linear and rotary (axial and radial)
Compatibility	Scale and rings from 30 mm to 325 mm outer diamter, MS10 scale with reference mark and MS05 scale without reference mark, up to 50 m.
Resolution	Down to 0.1 µm
Output signals	ABZ, RS422
Maximum speed	20 m/s or 12,000 rpm
Supply voltage	5 V ±10%
Operating temperature	−40 to +105 °C
Environmental protection	Enclosed readhead: IP67; PCB: not IP rated, up to 70% RH (non-condensing)

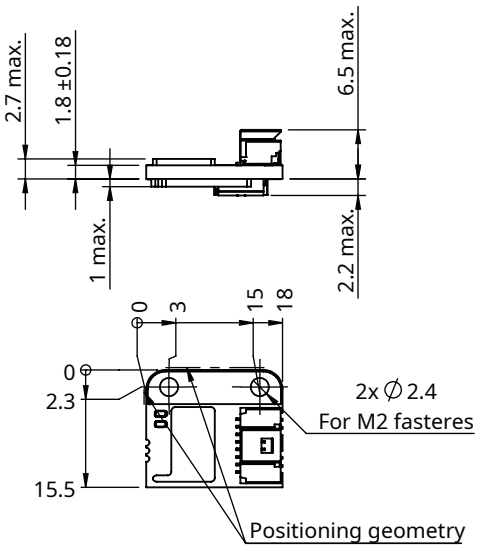
Lyra™ dimension drawings

Dimensions and tolerances are in mm. Dimensions without tolerance values are in accordance with ISO 2768-m.

Enclosed readhead (IP67)



PCB module



RLS d. o. o. has made considerable effort to ensure the content of this document is correct at the date of publication but makes no warranties or representations regarding the content. RLS d. o. o. excludes liability, howsoever arising, for any inaccuracies in this document. © 2026 RLS d. o. o.

RLS d. o. o.
Poslovna cona Žeje pri Komendi
Pod vrbami 2
SI-1218 Komenda, Slovenia

T: +386 1 5272100
E: mail@rls.si
www.rls.si