



High-precision photolithography and glass machining

PRODUCT DATASHEET

Optical Encoder Disc - Glass Substrate

SUBSTRATE

Glass Type	Sodalime, Quartz, D263, Black glass — other substrates on request
Thickness	From 0.3 to 6 mm
Flatness	<10 µm / Ø 100 mm

COATING & PATTERN

Coating	High reflective chrome. Low reflective chrome at specific wavelength
Minimum Feature / Line Width	5µm standard. Down to 2 µm on request.
Maximum line width deviation	±5%
Angular accuracy	2 arcsec
Pattern concentricity with outer/inner Ø	<0.1 mm

DIMENSIONS

Outer Ø	Up to Ø200 mm as standard
Outer Ø tolerance	±0.1 mm with Ø<120 mm. ±0.2 with Ø>120 mm
Inner Ø	Up to 190 mm as standard
Inner Ø tolerance	± 0.1 mm with Ø<90 mm. ±0.2 with Ø>90 mm

COATING OPTIONS

Reflective Chromium

High reflective chrome(R>60%) combined with black glass provide high contrast between chrome and glass areas for reliable signal output.

Low reflective Chromium

Low reflective chrome with R<10% at a defined wavelength can be used to minimize unwanted reflections of patterned area.

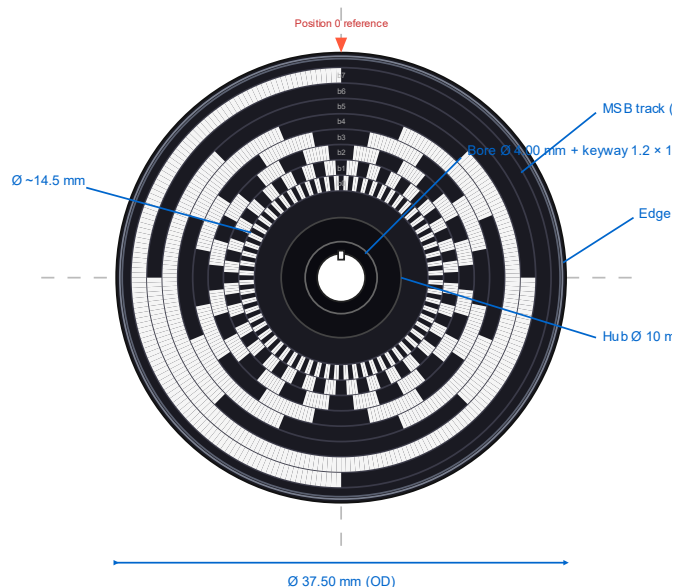


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ABSOLUTE ROTARY ENCODER DISK — Ø 37.5 mm

Dark glass substrate— 8-bit Gray code (256 positions) + index



HOW TO ORDER

Please provide the following information when requesting a quotation:

- 1 Encoder dimensions.
- 2 Data input — DXF, Gerber, GDS or PDF format
- 3 Glass type
- 4 Coating type
- 5 Required quantity and delivery timeframe

Request a Quote

Contact us for custom solutions tailored to your application and specifications.

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** All values are nominal. Selba reserves the right to update specifications without prior notice. Custom tolerances and special requirements available on request.*