



High-precision photolithography and glass machining

PRODUCT DATASHEET

Optical Encoder Disc - Film Substrate

SUBSTRATE SPECIFICATIONS

Material	Silver halide photographic emulsion coated on Polyester.
Substrate Thickness	0.18 mm (180 µm)
Reflective Coating	Additional Aluminium coating available for reflective operating mode

PATTERN & RESOLUTION

Minimum Feature / Line Width	10 µm
Line width deviation	±1 µm
Period deviation	±1 µm, non-cumulative

DIMENSIONS

Format	Up to Ø120 mm
Inner Ø tolerance	H7
Pattern concentricity with inner Ø	<10 µm

OPERATING MODES

Transmissive Mode

Standard polyester + emulsion substrate. Light passes through transparent polyester. Patterned area is high optical density black area. Compatible with transmitted-light optical sensors and encoder readheads.

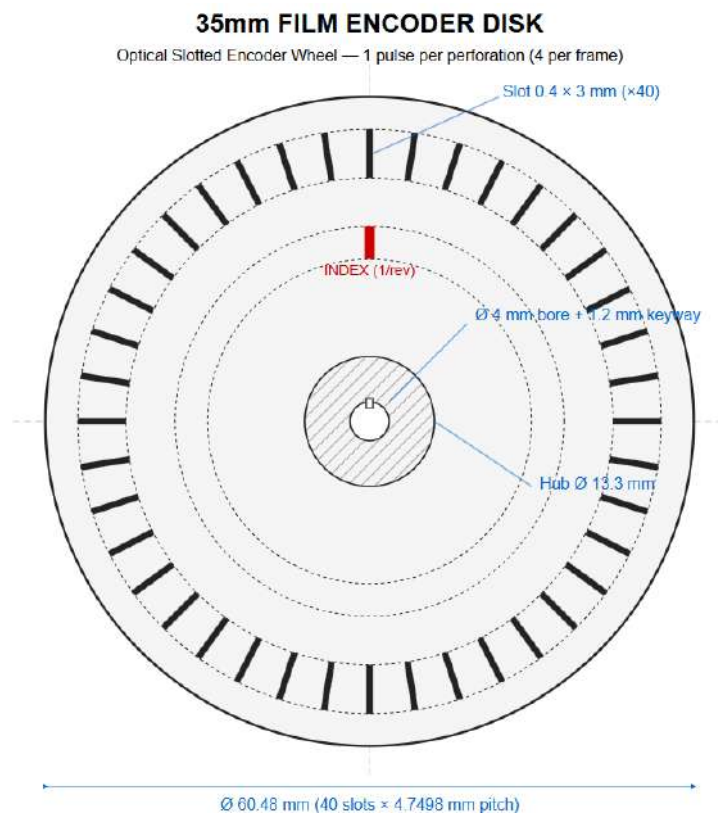
Reflective Mode (Al Coating)

Aluminium rear-coated version. Used for reflective mode of operation. Double sided adhesive available on request.



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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 Operating mode — transmissive (standard) or reflective (Al coating)
- 4 Required quantity and delivery timeframe

Request a Quote

Contact us for custom film encoder 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.