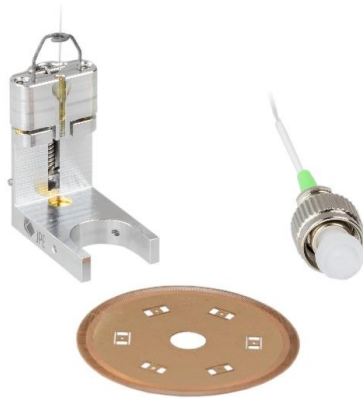


CRYOGENIC OPTICAL ENCODER (COE)



Features

- Incremental optical angular encoder
- 360 angular degrees measuring range, endless
- Optical fiber based
- Contactless
- MicroWatts dissipation when measuring
- Encoder can be switched "off" for zero dissipation
- Material: aluminium, glass
- Readout module: OEM
- Only purchasable as option on a positioner

Description / Applications

The Cryo Optical Encoder (COE) is an incremental non-contact angular encoder. It offers a full 360 degrees measuring range without blind spots. when used in combination with a CLA positioners submicron translational resolution is achieved. It is optical fiber based and all electronics are placed in ambient. Only the encoder head with a 200mm fiber pigtail is placed in the cryostat, dissipating no more than a few microWatts when measuring.

Specifications

specs	unit	COE
Wavelength	nm	1310
Fiber type	-	G652/SMF28e, Single Mode, Simplex, 9/125
Encoder head pigtail	-	Bare fiber (only coating), 200mm long (excl. connector)
Pigtail connector type/polish	-	FC/APC narrow key, male
Encoder Grid resolution	PPR	See product pages
Operating temperature	K	0.02-375
Mass	grams	5
Main construction material	-	Aluminium, glass
Dissipation	μ W	<5
DRIVE ELECTRONICS		
Controller/driver	-	CAB-230(115), CADM2
Encoder readout	-	OEM2

Mechanical and electrical information

Download 3D-Step files, interface drawings and user manuals from:

<https://www.jpe-innovations.com/cryo-nano-products/>

Contact

For quotations, orders, customization or specials, please contact us at:

<https://www.jpe-innovations.com/contact/>

Ordering Information

-COE

Only purchasable as part of compatible JPE positioners by selecting the "-COE" option.