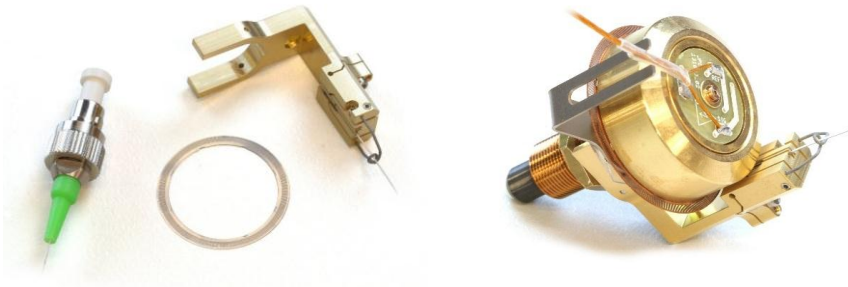


## CRYOGENIC OPTICAL ENCODER (COE)



### Features

- Incremental optical angular encoder for CLA
- 360 angular degrees measuring range, endless
- MicroWatts dissipation
- Optical fiber based
- Material: stainless steel, glass
- Encoder can be switched "off" for zero dissipation
- Non magnetic version available

### Description / Applications

The Cryo Optical Encoder (COE) is an incremental non-contact angular encoder. It offers 360 angular degrees measuring range without blind spots, yielding submicron translational resolution when used with a CLA. 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	Approx 10
Main construction material	-	Stainless steel, glass
Dissipation	$\mu$ W	<5
<b>DRIVE ELECTRONICS</b>		
Controller/driver	-	CAB-230(115), CADM(2)
Encoder readout	-	OEM <sub>2</sub>

### Mechanical and electrical information

Download 3D-Step files, interface drawings and user manuals from:  
[www.jpe.nl/cryo-nano-positioning/](http://www.jpe.nl/cryo-nano-positioning/)

### Contact

For quotations, orders, customization or specials, please contact us at:  
[www.jpe.nl/contact](http://www.jpe.nl/contact)

### Ordering Information

-COE

Only purchasable as part of an individual CLA or complete Stage by selecting the "-COE" option.