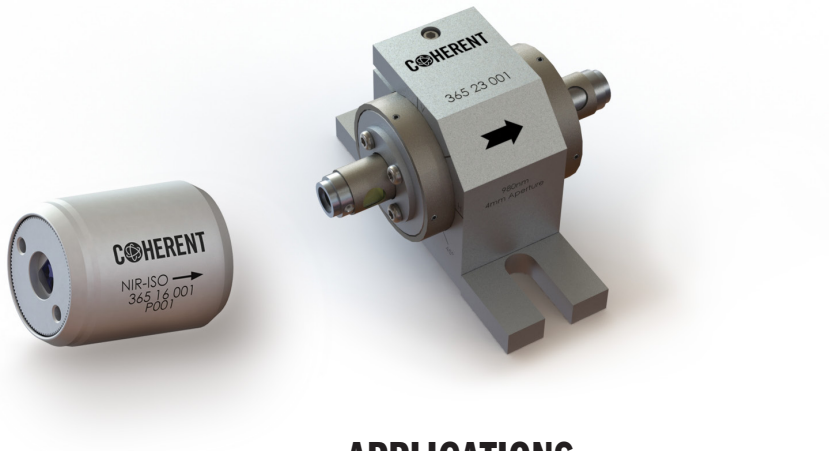
TORNOS

Faraday Isolators – 405 nm to 980 nm

Coherent TORNOS Faraday isolators are designed for wide-ranging end applications where optical feedback can adversely affect laser performance. TORNOS isolators provide high transmission in the forward direction while strongly attenuating light traveling in the reverse direction, protecting lasers from the deleterious effects of back reflections.

Our TORNOS devices deliver industry-best laser reliability and performance. TORNOS isolators cover a variety of wavelengths in the VIS and NIR. A range of devices is available which allow for optimal isolation and transmission at specific wavelengths, depending on the model, and within the spectral bandwidth of the device. Our standard models are available at wavelengths common to many applications. We can also supply TORNOS isolators optimized for non-standard wavelengths upon request.

TORNOS isolators contain optically-contacted polarizing beam splitter cubes resulting in high transmission as compared to other available isolators. Industry-leading high transmission results in more photons for your application. This allows diodes to be run at lower currents extending diode lifetime. The compact design makes it highly suitable for OEM integration.



FEATURES

- High transmission
- Extends the life of your diode
- Compact design

APPLICATIONS

- Raman Spectroscopy
- DNA Sequencing
- Imaging
- Environmental Sensing
- Mapping
- Microscopy
- 3D Metrology
- Protecting pump lasers in amplified systems
- Cold Atom

COHERENT

Specifications					
Wavelength[1] (nm)	Clear Aperture (mm)	Dimensions (mm)	Transmission[2] (%)	Isolation[2] (dB)	Max. Rated Power Handling[3] (W)
405	4	Ø14.0 x 40.5	≥92	≥33	5
461	4	Ø22.2 x 56.5	≥88	≥27	20
488	4	Ø38.0 x 74.8	≥88	≥28	5
532	2	Ø12.0 x 24.8	≥92	≥33	5
	4	Ø14.0 x 40.5	≥92	≥33	5
633	2	Ø20.0 x 25.0	≥95	≥33	5
785	2	Ø20.0 x 25.0	≥95	≥33	5
	4	Ø22.0 x 40.8	≥95	≥33	5
850	4	Ø22.0 x 51.4	≥95	≥33	5
980	4	Ø31.8 x 70.4	≥88	≥27	20

Notes:
1 Other wavelengths available upon request.
2 At operating wavelength and temperature (22°C).
3 Specified performance up to this power level.