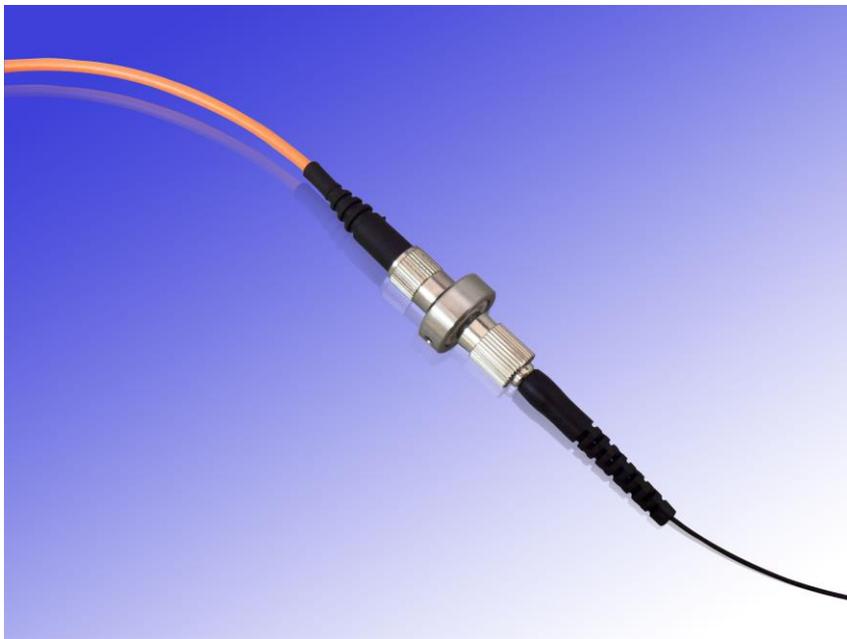


# Prizmatix

## Rotary Joint



## User Manual

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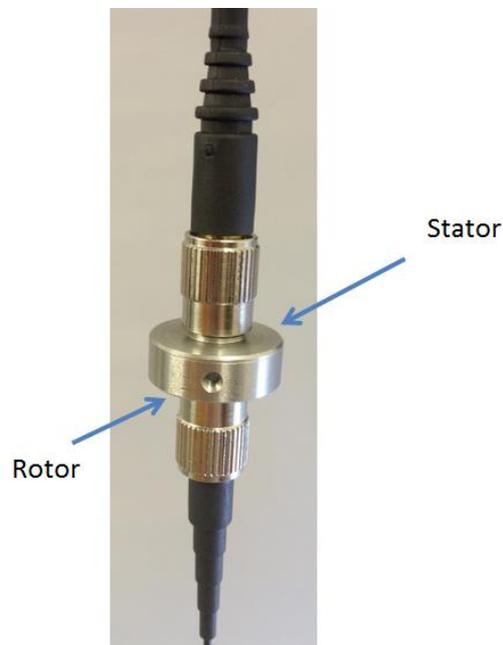
## Introduction

Prizmatix's Rotary Joint is specially designed for Optogenetics experiments with freely moving mammals. The Rotary Joint accept High NA detachable fibers equipped with FC connectors.

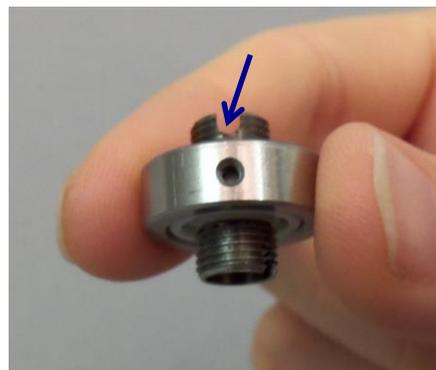
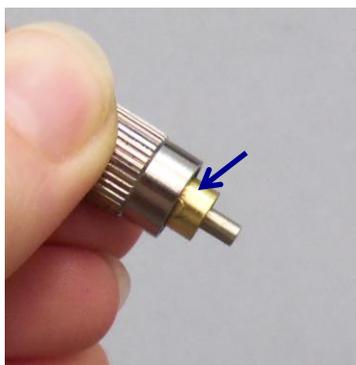
The free-spinning character of Prizmatix's Rotary Joint can make it tricky to attach and remove fibers. This user manual is intended to help make this process easier and simpler.

## Procedure

The Rotary Joint is comprised of a stator and rotor: the stator is the stationary part of the Rotary Joint, while the rotor is the spinning element:



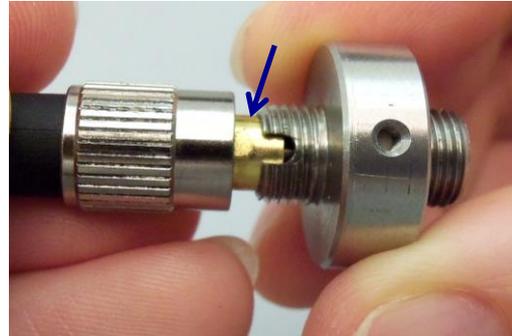
Pull back the collar around the fiber's connector to reveal a small key (the rounded protrusion), which matches with the small notch on the stator of the Rotary Joint:



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Keeping the collar of the fiber connector pulled back, line up the key on the connector with the notch in the stator, taking care to insert the ferrule into the hole of the Rotary Joint meanwhile:

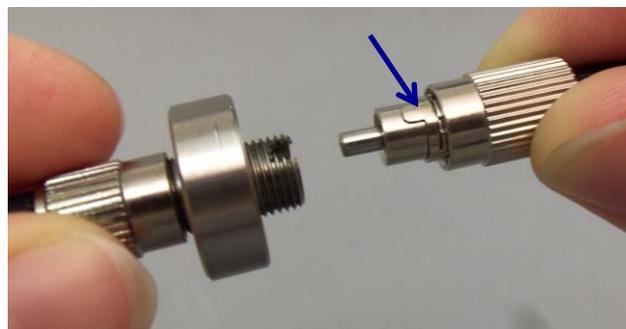


Push in fiber to the end, then pull the collar down towards the Rotary Joint. Holding the stator still, turn the collar to screw on fiber connector:



Now we move on to the second fiber on the other side:

Holding the stator in place on the left side (as in picture below), line up the key of the right-hand connector with the notch on the rotor of the Rotary Joint:



Push in key into notch - while lining up the ferrule with the hole in Rotary Joint - then push down the fiber's collar.

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With left hand, hold the stator of the Rotary Joint firmly in place while at the same time turning the collar of the right-hand side fiber with thumb and index finger. Squeeze the connector's boot (the rubber tubing right next to the connector) in your other fingers to keep it still.



Keep turning collar until it cannot go further and looks as follows:



Now the fibers are connected to the Rotary Joint and ready to be attached to your light source. To detach fibers follow the same procedure in reverse.