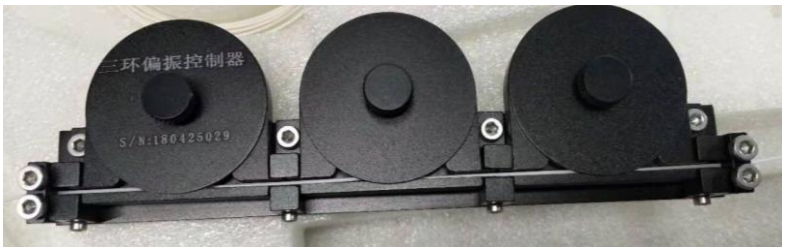
Mechanical 3-Paddle Polarization Controller



Name: 3 Paddle Polarization Controller
Description: 3-paddle, SMF 1550 fiber, 1 meter length, 0.9mm tube FC/APC
P/N: FPC-3-1550-SMF28e-1-1-FA

1、Description

1.1 Description

The Mechanical 3-Paddle Polarization Controller is made by the principle of optical fiber induced birefringence under the action of external force. The three paddles are equivalent to three kinds of wave plates ë/4, ë/2, ë/4. The light waves are converted into linearly polarized light through the ë/4 wave plate, and then the polarization direction is adjusted by the ë/2 wave plate, and finally passes through the ë/4-wave plate changes the polarization state of linearly polarized light into an arbitrary polarization state.

1.2 Features

Equivalent to e/2, e/4 optical wave plates, adjustable to any polarization point on the Poincare sphere, lower insertion loss, and wider wavelength working range. It is with excellent workmanship, easy to disassemble, can replace and wind the optical fiber simply.

1.3 Application areas

1.3.1 Application of single-mode to polarization-maintaining fiber
1.3.2 Polarization dependent loss measurement (PDL test)
1.3.3 Application of Polarization Sensitive Devices
1.3.4 Fiber laser
1.3.5 Fiber Interferometer

2、Product Structure

1.1 Shape and Size

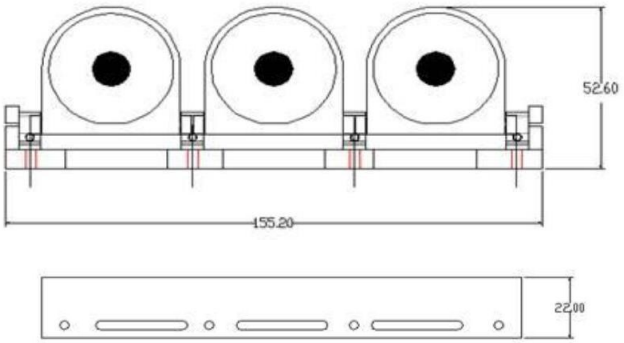


Figure 1 Schematic diagram of the mechanical three-ring polarization controller（Unit: mm）