

## Manual adjustable fiber delay line

Description:

The third generation manual fiber delay line (Optical fiber delay line) developed by Wright Sun Optoelectronics is a unique delay mechanism with high precision and low insertion loss, continuous and reliable operation; wide delay range can reach order of ps & fs, high reliability, low polarization related loss (<0.1 dB) and low insertion change (<0.5dB, simple and compact structure ). And can be customized according to the user needs of the product requirements.



[Application of optical fiber delay line]

Radar test. calibration **Controlled antenna array Optical coherence tomography** X radiography Fourier spectroscopic analysis Light interferometry fibre optic sensor **Optical time-domain effect** measurement **Bitcorrection for optical** network time-division multiplexing (OTDM) Optical buffers in a quasioptical network Differential Group Delay (OMD) Multiplexing at compensation time hours fibre optic interferometer **THz research** Quantum communication, secret key biological medicine

[Product characteristics]

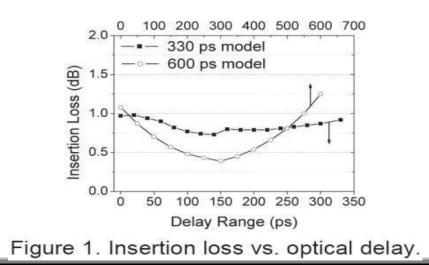
Unique delay machinery, working continuously and reliably, wide delay range, and customized delay accuracy to user request, delay accuracy up to orders of magnitude ps & fs. High reliability, low polarization-associated loss (<0.1dB) Lower insertion loss change (<0.5dB) Simple and compact structure, good repeability, excellent performance.

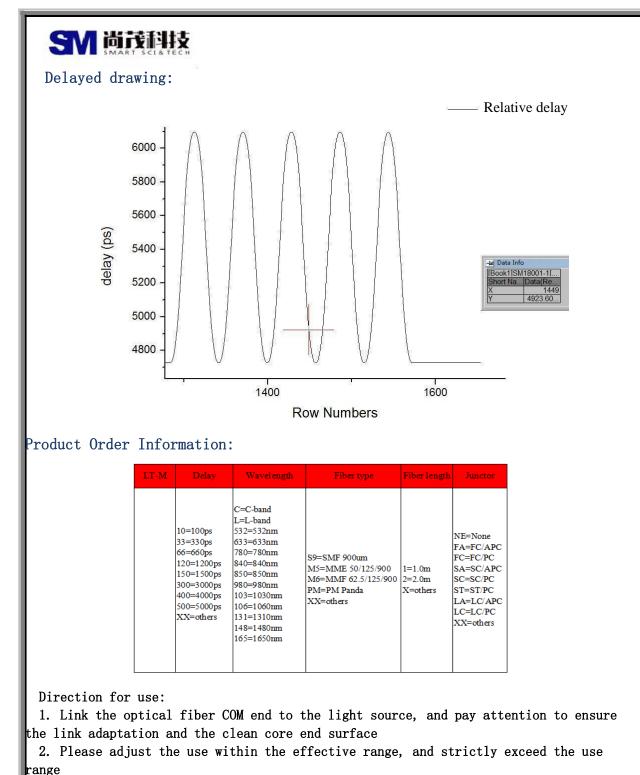


## Product Parameter:

|                     | C-band or L-band or other wavelengths       |
|---------------------|---|
| Light delay range   | 0~100 ps continuous for 100ps model         |
|                     | 0~330 ps continuous for 330ps model         |
|                     | 0~660 ps continuous for 660ps model         |
|                     | 0~1200 ps continuous for 1200ps model       |
|                     | 0~1500 ps continuous for 1500ps model       |
|                     | 0~3000 ps continuous for 3000ps model       |
|                     | 0~4000 ps continuous for 4000ps model       |
| Read-scale          | 10.16fs                                     |
| resolution          |   |
| Insertion loss      | typ.0.8dB,max 1.2dB                         |
| Insertion loss      | ±0.1dB over entire range for 100ps model    |
|                     | ±0.15 dB over entire range for 330ps model  |
|                     | ±0.15 dB over entire range for 660ps model  |
| parameter changes   | ±0.35 dB over entire range for 1200ps model |
|                     | ±0.5dB over entire range for 1500ps model   |
| Return loss         | > 55 dB                                     |
| Extinction ratio    | >18 dB                                      |
| Light withstand     | max 500mW                                   |
| power               |   |
| Working temperature |   |
| Storage temperature |   |
| Fiber type          | Conning SMF-28,or Fujikura PM Panda fiber   |
| Size (L x W x H)    | 81.5x34X45mm for 100ps model                |
|                     | 120x38X45mm for 330ps model                 |
|                     | 164x38X45mm for 660ps model                 |
|                     | 170x48X45mm for 1200ps model                |
|                     | 184x48X45mm for 1500ps model                |
|                     | XX for 3000ps model for 4000ps model        |

## Performance value:





3. It is strictly prohibited to drag optical fiber and small radian curling optical fiber and cause optical fiber damage

4. If there is a locking mechanism, you only need to debug the target amount and lock the precision screw on the rocker with the inner hexagonal, that is to lock the target parameters

container loading list:

- 1. A delay line;
- 2. One copy of the manual;
- 3. One test report