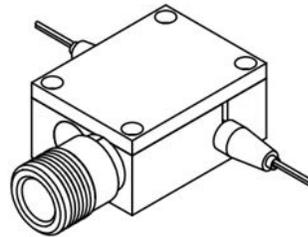
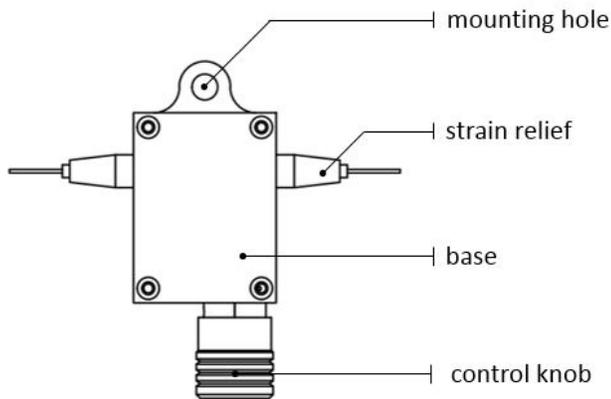


### General description

Fiber Tunable Directional Coupler (FTDC) provides whole tuning range of 0 – 100% coupling ratio.

### Configuration



**Device holder:** hole for screw to fix the device.  
Ø7(mm)

**Strain relief:** fiber pigtails in/out (basically 2 × 2 configuration)

**Base dimension:** 66×39×25 (mm)

**Control knob :** controls coupling ratio (0 - 100 %)

### Operation

**Coupling ratio:**

- Coupling ratio is adjusted by using the control knob.
- Scales marked on the control knob do not represent the actual coupling ratio, but provide the reference. Relation between the scale and the actual coupling ratio can vary unit by unit, and is denoted in the data sheet.
- For the exactly reproducible coupling ratio at the same scale point, ;
  - o Adjust the coupling ratio from smaller to larger direction.
  - o If the desired coupling ratio is smaller than the current condition, reset the knob to 0 and adjust to the desired point.
- Do not apply the excessive force on the control knob beyond the limit points.
- Coupling ratio can vary at different temperature.

### Specifications

Insertion loss (dB)	< 0.1 (without connector) < 0.5 (with connectors)
Tuning range of coupling (%)	0 - 100
Operation wavelength (nm)	Specified by customer (633, 830, 980, 1064, 1550)
Polarization extinction ratio (dB) (PMF only)	> 20 (without connector) > 15 (with connectors)

**Product code**

FTDC - ①-②-③

## ① Fiber types

P: PMF  
N: None-PMF

## ② Operating wavelength

063: 633 nm  
083: 830 nm  
098: 980 nm  
106: 1060 nm  
155: 1550 nm

## ③ Connectors

NO: none  
FA: FC/APC  
FP: FC/PC  
FU: FC/UPC  
FS: FC/SC**Warranty**

KS Photonics provides 1-year warranty. However, any damages caused by customer's fault will not covered by the warranty.

**Note**

Do not disassemble the device. You will not have our warranty policy if anti-disassembling seal is damaged.