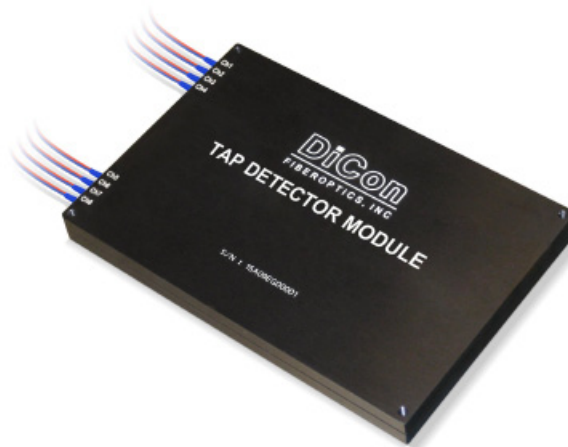
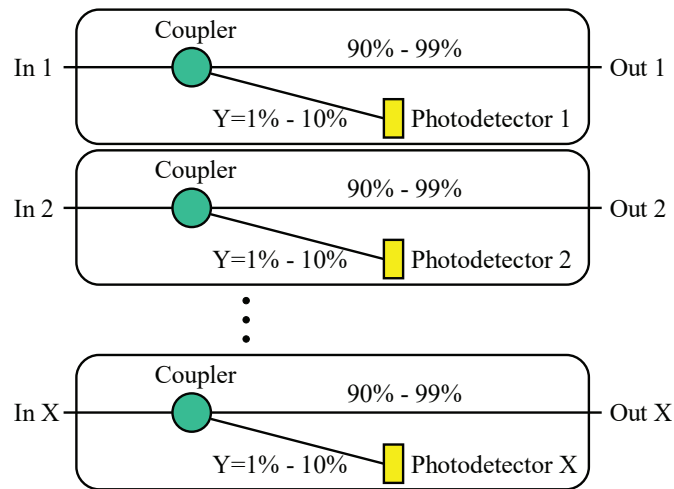


TAP DETECTOR MODULE

DiCon's Tap Detector Module provides in-line power monitoring of up to eight different fibers. This is accomplished by utilizing fused couplers on every input, which tap off a portion of the signal and delivers it to a photodetector for power measurement.



FEATURES

- In-Line Power Monitoring
- Up to 8-channels
- Standard & High Sensitivity Photodetectors



TAP DETECTOR MODULE

OPTICAL SPECIFICATIONS^{1,2}

| PARAMETER | | RATING |
|---|-----|----------------------|
| Insertion Loss | 1% | 0.3 dB max. |
| | 2% | 0.4 dB max. |
| | 5% | 0.5 dB max. |
| | 10% | 0.8 dB max. |
| Measurable Input Power Standard Sensitivity | 1% | -25 to 20 dBm |
| | 2% | -28 to 17 dBm |
| | 5% | -32 to 13 dBm |
| | 10% | -35 to 10 dBm |
| Measurable Input Power High Sensitivity | 1% | -60 to -5 dBm |
| | 2% | -63 to -8 dBm |
| | 5% | -67 to -12 dBm |
| | 10% | -70 to -15 dBm |
| Measurement Accuracy ³ | | +/- 0.3 dBm |
| Measurement Resolution | | 0.01 dBm |
| PDL | | 0.1 dB max. |
| BR | | -50 dB max. |
| Fiber Type | | 9/125 μm single mode |

- All specifications are without connectors.
- All specifications measured at CWL, 23°C.
- For standard sensitivity, TBD for high sensitivity

ELECTRICAL SPECIFICATIONS

| PARAMETER | RATING |
|-------------------|-------------------------|
| Control Type | I ² C, RS232 |
| Vcc Voltage | 5 VDC |
| Power Consumption | 1 W max. |
| Connector Type | Molex 87833-1620 |

ORDERING INFORMATION

TDE - - - - - - - -

Product Code

TDE Tap Detector Module

Configuration

X/Y X: # of Channels
Specify X as 1 to 8

Y: Tap %
Specify Y as 1, 2, 5 or 10

Example: 8/1 indicates 8 channels, each with a 1% tap.

Sensitivity

H High
S Standard

Control Interface

I2C I²C
RS2 RS232

Wavelength Range

13 1290 - 1330 nm
15 1528 - 1563 nm
16 1570 - 1610 nm

Fiber and Jacket Type

9/BF Corning SMF-28, Bare Fiber
9/LT Corning SMF-28, Loose-tube
Or other equivalent 9 μm Singlemode fiber

Connector Type

FC FC/SPC
FC/APC FC/APC
LC LC/SPC
LC/APC LC/APC
N NONE
Other connector types available upon request.

Pigtail Length

1 1 Meter
X Specify X Meters
Tolerance is +/- 0.05 m

MECHANICAL DIMENSIONS

(Units: mm)

