

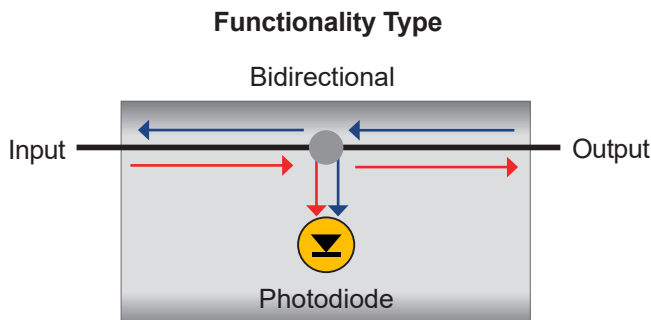
# OPTICAL TAP DETECTOR MODULE

## Multimode Fiber



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

- Houses & Controls Up To 16 Tap Detectors
- Hermetically Sealed for Long Term Reliability
- Compact Form Factor
- Flat Spectral Response



## ORDERING INFORMATION

**ATE1 - T - 1 - □ - □ - □ - U - 9L - B - □ - N - □**

**Device Type**

**T** Tap Detector

**Number of Device**

**1** 1 Device

**Configuration**

**X/Y** # of Channels / Tap Ratio %

**Fiber Type**

**50** 50/125 μm MMF  
**62** 62/125 μm MMF

*\*Other fiber options are available upon request*

**Test Wavelength**

**850** 850 nm  
**980** 980 nm  
**O** 1310 nm  
**C** 1550 nm

*\*Use "I" to add multiple wavelengths (E.g., 850/980)*

**Control Interface**

**U** USB, RS232, I<sup>2</sup>C

**Fiber Jacket Type**

**9L** 900 μm Loose Tube

**Functionality Type**

**B** Bidirectional

**Connector Type**

**N** None  
**FC** FC/UPC  
**FC/APC** FC/APC  
**LC** LC/UPC  
**LC/APC** LC/APC  
**SC** SC/UPC  
**SC/APC** SC/APC

*\*Other connector types are available upon request*

**Connector Key Orientation**

**N** None

**Pigtail Length**

**1** 1 Meter  
**X** Specify X Meter

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### OPTICAL SPECIFICATIONS<sup>1,2</sup>

Operating Wavelength		850 / 1310 / 1550 nm
Insertion Loss <sup>3</sup>	5% Tap Ratio	0.8 dB max.
	10%	1.0 dB max.
Dynamic Power Range	5% Tap Ratio	-51 to 18 dBm
	10%	-54 to 15 dBm
Relative Measurement Accuracy <sup>4</sup>		±0.2 dB max.
Back Reflection		-20 dB max.
Optical Power <sup>5</sup>		500 mW max.
Fiber Type		Multimode

- All specifications are measured separately at room temperature for each Test Wavelength
- Multimode fiber specifications are based on LED light source
- Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- For power range when
  - Input power > -31 dBm for 5% tap ratio
  - Input power > -34 dBm for 10% tap ratio
- Met by design, not measured

### ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	RS232, I <sup>2</sup> C, or USB
Supply Voltage	12 VDC
Power Consumption	9.5 W max. Start Up 4.5 W max. Operating
Connector Type	Samtec P/N: STMM-108-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

### MECHANICAL DRAWING

Dimensions in mm

