

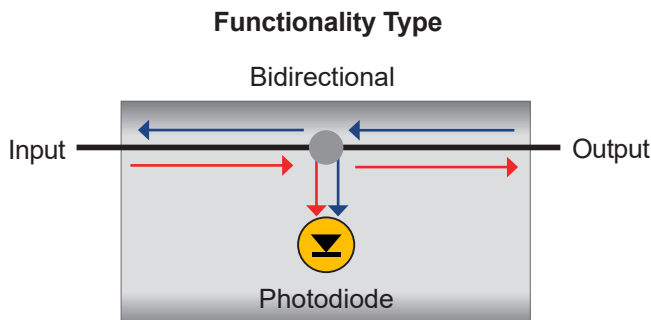
# OPTICAL TAP DETECTOR MODULE

## 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

1. All specifications are measured separately at room temperature for each Test Wavelength
2. Multimode fiber specifications are based on LED light source
3. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
4. For power range when
  - Input power > -31 dBm for 5% tap ratio
  - Input power > -34 dBm for 10% tap ratio
5. 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-018-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

### MECHANICAL DRAWING

Dimensions in mm

