



Precision Rated Optics

Work with a PRO!

OFI-30

Optical Fiber Identifier



Foreword

Thank you for purchasing from PRECISION RATED OPTICS. Before assembly and use, make certain that all of the parts you have ordered are present. Check the packaging carefully as some parts are small and can be overlooked. Also, locate any additional parts and accessories you may have purchased.

Safety Conventions

You should understand the following conventions before using the product described in this manual.

CAUTION

”Caution” refers to a potential product hazard. It requires a procedure which, if not correctly followed, may result in component damage. Do not proceed unless you understand and meet the required conditions.

Overview

PRO Optical Fiber Identifiers (OFI-30) are rugged, easy-to-use installation and maintenance instruments which identify optical fibers by detecting the optical signals being transmitted through a fiber. By utilizing local detection technology (non-destructive macro-bend detection which does not damage or overstress the fiber), the units eliminate the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

The Optical Fiber Identifier detects low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

There are four types of adapter heads available: 0.25mm (250 micron), 0.9mm (900 micron), 2.0mm and 3.0mm. The optical fiber identifier is powered by a 2x AAA batteries.

Standard Accessories

Optical Fiber Identifier, Adaptors (0.25mm, 0.9mm, 2.0mm and 3.0mm), Batteries, User Manual, Soft Carrying Case

Specifications

Identified Wavelength Range	800 ~ 1700nm
Frequencies Detected	(CW) 270Hz (±5%), 1kHz (±5%), 2kHz (±5%)
Detector Type	InGaAs
Adaptor Type	0.25 (Applicable for “Bare” 250 micron fiber) 0.9 (Applicable for 900 micron fiber) 2.0 (Applicable for 2.0mm Cable) 3.0 (Applicable for 3.0mm Cable)
Signal Direction	Left & Right LED Indicator
Optical Power Reading	-50 ~ +10dBm
Signal Frequency	270Hz, 1kHz, 2kHz
Power Supply	2x AAA Batteries
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)
Storage Temperature	-13° F ~ 158° F (-25° C ~ 70° C)
Dimensions	7.6” x 1.1” x 1” (195 x 30 x 27 mm)

Function Description



Features

- Effectively identifies traffic direction and frequency tones (270Hz, 1KHz, 2KHz) without any damage to the fibers.
- Core Power display of the fibers (-48~+0Bm) at 0.9mm fiber.
- Very low loss (fiber attenuation) when testing is in process.
- Easily replaceable adapters; 0.25mm (250 micron), 0.9mm (900 micron), 2.0mm, 3.0mm to satisfy various optical cables.
- Portable & compact.
- Easy-to-use one button operation.

Operating Instructions

Optical Fiber Identification

- 1) Insert the fiber to the adapter head and push the button up to lock the clamp.
- 2) When optical signal passes through the fiber, the LED illuminator will indicate the traffic's direction with an intermittent audible tone and the relative core power will be displayed.
- 3) If no optical signal is present in the fiber, the LED illuminator is off and "LO" will be displayed in the relative core power display.
- 4) The fiber identifier can also detect the presence of 2KHz, 1KHz and 270Hz modulated tone with the continuously audible tone.

Select an Adapter

- 1) Select the appropriate adapter head according to the fiber or jacket type of fiber.



- 2) Place the fiber into the adapter head groove when using the 2.0 and 3.0 adapters.
- 3) Push the button to raise the fiber toward the upper groove. Ensure the fiber rests in the grooves on both the upper and lower assemblies. (eg. 0.9 mm (900 micron) and 0.25 mm (250 micron) adapters).



On/Off

- 1) Push the "clamping button" to turn on the unit.
- 2) Loosen the "clamping button" to turn off the unit.

OFI Shade Cover

Shade Cover Introduction:

The shade cover is a newly designed accessory of the fiber identifier. We've determined this is an essential tool to solve errors caused by interference of the natural light, especially when testing in the field.

With the help of the shade cover, it will completely eliminate the natural light and make test results more accurate and reliable.

Operation method:

- 1) Put the tested optic fiber on the OFI.



- 2) Place the upper cover in front of the OFI.



- 3) Slightly press the optical fiber into the slot of the shade cover and put it on the palm, then we can get the accurate measurement result.



- 4) Once testing is complete, remove the shade cover on the OFI.

Maintenance

- 1) The fiber should be put in the groove according to the specific type.
- 2) Please use the cotton swabs to clean the detector surface regularly to keep it from dust.
- 3) Please take out the battery when it is not in use for a period of time.

Warranty and Service

Caution: Repair in the field is prohibited.

3 year warranty for Fiber Identifier.

PRECISION RATED OPTICS warrants that each fiber identifier will be free from defects in material and workmanship for 3 years. This warranty covers the original user only and is not transferable. Should the device fail at any time during this warranty period, PRECISION RATED OPTICS will, at its sole discretion, replace, repair or refund the purchase price of the product.

This warranty is limited to defects in workmanship and materials and does not cover damage from accident, acts of God, neglect, contamination, misuse or abnormal conditions of operation or handling. To establish original ownership and provide date of purchase, please complete and return the registration card to PRECISION RATED OPTICS. This warranty card will not go into effect until the warranty registration has been received by PRECISION RATED OPTICS.

A warranty registration card is included with the original shipment of equipment. Please take a few moments to fill out the card and mail or fax it to PRECISION RATED OPTICS to ensure proper initiation of your warranty term. To return a defective product for warranty coverage, contact PRECISION RATED OPTICS for a written authorization. Failure to properly protect the product during shipping may avoid this warranty.

PRECISION RATED OPTICS will pay return transportation for products repaired or replace in warranty period. Before making a repair not covered by the warranty, PRECISION RATED OPTICS will estimate cost and obtain authorization, then invoice for repair and return transportation. PRECISION RATED OPTICS reserves the right to charge for all testing and shipping costs incurred, if test results determine that the device is without defect.



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