

Live Fiber Detector

LFD-200



- No need to open fiber for identification

Hands-free operation via Hold button

Three interchangeable adapter heads



Fiber-optic T&M,
monitoring, manufacturing
and assembly solutions

EXFO

No-Disconnection Live Fiber Detection

The LFD-200 Live Fiber Detector allows you to detect traffic and measure signals anywhere on singlemode and multimode fibers without having to disconnect them. It also lets you check for signal presence before rerouting or maintenance, perform continuity tests and verify cable labeling. Based on non-destructive macrobending technology, the LFD-200 doesn't disrupt traffic, damage or overstress the fiber, enabling efficient, accurate and reliable data acquisition.

LFD-201 LFD-202 LFD-202P LFD-203



Simple Testing of Multiple Fiber Types

EXFO's LFD-200 is the only instrument of its kind on the market that comes with a choice of three built-in, interchangeable adapter heads, making it an all-in-one solution for live fiber detection. The handle's storage compartment holds the extra adapter heads for simple conversion and easy testing of various fiber types.

The LFD-200 also features a unique Hold button that enables hands-free operation. Just slide the button up and over to lock it in place. You are now free to operate your setup.



Adapter heads compartment (door open)

Ball allowing the adjustment of the compartment door

Adapter heads compartment (door closed)

Complete Diagnosis. Fast.

Simply clamp the LFD-200 onto a fiber, listen for a beep indicating the presence of traffic, then view a complete status report on the multifunction LED display including

- signal presence or absence (live or dark fiber)
- signal type (customer traffic, continuous or modulated test signal at 270 Hz, 1 kHz or 2 kHz)
- signal direction
- core power within 2 dB (typical)

LFD-200 Series: models and features

	LFD-201	LFD-202	LFD-202P	LFD-203
Core power display		√	√	
Maximum power range (dBm)	0 to -40	0 to -40	+20 to -20	0 to -40
Over-range indicator		√	√	
Fiber type	Single fiber	Single fiber	Single fiber	Ribbon fiber
Fiber heads (included)	3 mm 900 250/RIB	3 mm 900 250/RIB	3 mm 900 250/RIB	RIB-12 RIB-CBL RIB-3 mm
Optional 2 mm head	√	√	√	

Accessories (Interchangeable Heads)

LFD-201, LFD-202 and LFD-202P

3 mm

Extra head for jacketed fiber (3 mm)



900

Extra head for jacketed fiber (900 mm)



250/RIB

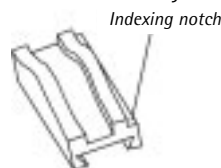
Extra head for coated fiber (250 mm) and jacketed fiber (3 mm)



LFD-203

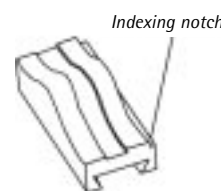
RIB-CBL

Extra head for jacketed ribbon fiber



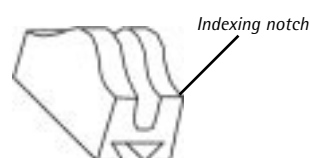
RIB-12

Extra head for bare ribbon fiber



RIB-3 mm

Extra head for jacketed fiber (3 mm)



Specifications

LFD-201, LFD-202 and LFD-202P

Optical Characteristics, Typical (using Corning 1528)

Optical tone receiver	270 Hz, 1 kHz, 2 kHz
Detection technique	Non-destructive macrobending
Loss	< 0.6 dB at 1310 nm
Spectral response	800 nm to 1650 nm
Detector sensitivity (MDSP)*	-40 dBm (equivalent core power)
Minimum fiber slack	1.9 cm (3/4 in) required for detection

Core Power Detection, Typical

LFD-201	0 dBm to -40 dBm ± 2 dB
LFD-202	0 dBm to -40 dBm ± 2 dB
LFD-202P	20 dBm to -20 dBm ± 2 dB

Fiber Compatibility

Dual window, singlemode	8 µm to 10 µm core diameter
Coating diameter	250 µm diameter
Coating	High refractive index, acrylate

* Mean detectable signal power for singlemode fiber at 1310 nm.

General Specifications

Size (H x W x D)	23.6 cm x 3.0 cm x 3.2 cm	(9 5/16 in x 1 3/16 in x 1 1/4 in)
Weight	0.3 kg	(0.6 lb)
Battery	Standard 9 V alkaline battery	
Battery life	Approx. 10 000 readings	
Temperature		
Operating	-20 °C to 50 °C	(-4 °F to 122 °F)
Storage	-40 °C to 60 °C	(-40 °F to 140 °F)
Humidity	0 % to 90 % non-condensing at 35 °C	

Optional Accessory

Optional interchangeable 2 mm head

LFD-203

Optical Characteristics (Using SMF-28)

Detection technique	Non-destructive macrobending
Insertion loss (typical)	< 0.20 dB at 1310 nm < 2.00 dB at 1550 nm
Spectral response	800 nm to 1650 nm
Minimum detector sensitivity* (typical)	
Bare ribbon fiber:	-40 dBm at 1310 nm -50 dBm at 1550 nm
Jacketed ribbon fiber:	-30 dBm at 1310 nm -40 dBm at 1550 nm
Optical tone receiver	270 Hz, 1 kHz, 2 kHz
Minimum fiber slack	1.9 cm (3/4 in) required for detection

Fiber Compatibility

Dual window singlemode	8 to 10 µm core diameter
Coating diameter	250 µm
Coating	High refractive index acrylate

Interchangeable Fiber Heads

Bare ribbon fiber adapter
Jacketed ribbon fiber adapter
3 mm

* Sensitivity is color-dependent. The LFD-203 is sensitive to dark colors such as black, brown and dark blue.

Ordering Information

LFD-20X

Live fiber detector

- 1 = Standard live fiber detector without core power reading display
- 2 = Live fiber detector with core power reading display
- 2P = High-power live fiber detector with core power reading display
- 3 = Live fiber detector for ribbon fiber

Includes: LFD-200 carrying case and three interchangeable adapter heads
User Guide, 9 V alkaline battery and Certificate of Compliance.

Example: LFD-203

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our Web site at www.exfo.com



Rugged Handheld Solutions

- OLTS
- Power Meter
- Light Source
- Talk Set



UNIVERSAL TEST SYSTEM

- OTDR
- OLTS
- ORL
- Switch

Optical Fiber

- OSA
- PMD
- Chromatic Dispersion Analyzer
- Multiwavelength Meter

DWDM Test Systems

Protocol

- 10/100 and Gigabit Ethernet
- SONET/SDH (DSO to OC-192c)
- SDH/PDH (64 Kb/s to STM-64c)

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