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Data Sheet

August 13, 2026

EXFO

EXFO LFD-100 Live Fiber Detector

Instrument Type: Live Fiber Detector / Fiber Identifier Alias: LFD-100; LFD100 Live Fiber Detector Detection method family: non destructive macrobending (LFD series) Fiber types supported: singlemode and multimode Alias: LFD-100; LFD100 Live Fiber Detector Detection method family: non destructive macrobending (LFD series) Fiber types supported: singlemode and multimode Primary indications: traffic present/absent



MODEL

Exfo LFD-100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LFD-100

LISTING

<https://aumictechlabs.com/products/lfd-100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO LFD-100 Live Fiber Detector is a portable instrument that identifies active optical fibers without cable disconnection, enabling safe fiber identification during network maintenance and installation. Using a non-intrusive macrobending technique, it detects live and dark fibers across singlemode and multimode architectures while preserving signal integrity and preventing fiber stress. The instrument provides absolute or relative power readings, signal direction indication, and signal type classification - distinguishing customer traffic from continuous or modulated test signals at 270 Hz, 1 kHz, or 2 kHz. Technical Specifications Fiber Compatibility: Singlemode and multimode fibers; supports 250 μ m, 900 μ m, and 3 mm jacket sizes; detects signals on fibers 4–9 of 12-fiber ribbon cables Power Measurement: Absolute or relative readings in dBm or dB; 0.1 dB display resolution above –50 dBm; absolute core power accuracy ± 2 dBm Signal Detection: Identifies signal presence, type (customer traffic, continuous, modulated), and direction Test

Methodology: Macrobending detection with low insertion loss; non-disruptive to live network traffic Display & Operation: Back-light toggle via 3-second dBm/ref button press; auto-off after 5 minutes inactivity or 10 seconds after failed self-test Power Source: Standard 9V alkaline battery; 8–10 hour runtime; low battery indicator Physical: 24 × 6.4 × 2.5 cm; 0.32 kg (with battery); 0.9 kg shipping weight Environment: Operating temperature –10° to 50°C; storage –40° to 60°C; 0–95% humidity (non-condensing)Key Features Universal adjustable clamping head accommodates fiber sizes from 250 µm to 3 mm without tool changeover Non-removable head design ensures consistent, safe macrobending contact Distinguishes modulated test signals at three discrete frequencies: 270 Hz, 1 kHz, 2 kHz Delivers 0.1 dB resolution for precision splice and connector alignment verificationTypical Applications Cable labeling verification Continuity testing on dark fiber routes Pre-rerouting signal presence confirmationCompatibility & Integration Works with standard singlemode and multimode patchcords, color-coated fibers, and 12-fiber ribbon cables. Universal head design eliminates adapter requirements across diverse fiber geometries.

Features & description

From manufacturer datasheet

Features

• No-disconnection live fiber detection • Singlemode and multimode fiber support (LFD-100 family) • Traffic presence indication • Continuity and cable labeling aid • Handheld clamp-style detector form • Predecessor to EXFO LFD-200 series • Discontinued with published end-of-service date • Field portable battery operation class

Applications

• Live vs dark fiber identification without breaking service • Continuity and labeling verification in the field • Pre-maintenance traffic presence checks • Tone detection of modulated test signals • SM and MM plant installation and restoration

LFD100 Characteristics / Specifications

PARAMETER	VALUE
Model	LFD-100
Manufacturer	EXFO
Instrument Type	Live Fiber Detector / Fiber Identifier
Alias	LFD-100; LFD100 Live Fiber Detector
Detection method family	non destructive macrobending (LFD series)
Fiber types supported	singlemode and multimode
Disconnect required	no
Primary indications	traffic present/absent
Use cases	continuity; labeling; pre-maintenance check
Discontinued date published	2/5/2003
End of service published	5/5/2006
Successor family	LFD-200 / LFD-201 / LFD-202
Successor tone receivers	270 Hz; 1 kHz; 2 kHz
Successor spectral response	800 nm to 1650 nm
Successor insertion loss typical	<0.6 dB at 1310 nm
Successor min fiber slack	1.2 cm
Successor core power LFD 2	0 to -40 dBm typical
Successor coating diameter	250 µm acrylate class
Form	handheld clamp detector
Powering class	battery operated
Primary market	field fiber identification
OEM documentation density	sparse numeric tables for LFD-100 specifically
Catalog role	live fiber detector accessory/instrument Notes LFD-100 public OEM numeric tables are sparse; identity and usage from EXFO discontinued product listings. Successor LFD-200 datasheet values are listed for family reference only—confirm capability on the specific LFD-100 unit and do not assume LFD-202 power ranges.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.