

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

EXFO

Exfo LFD-250B Live Fiber Detector

Applications - Non-intrusive live fiber identification - Traffic direction verification - Dark fiber tone location (270 Hz, 1 kHz, 2 kHz) - In-line power measurement without disconnect - Pre-maintenance activity checks on high-payload links Key Features - Step-motor optimized bending angle - Maximum guaranteed loss 1 dB - In-line power measurement with jacket auto sense - Tone recognition 270 Hz / 1 kHz / 2 kHz - Traffic presence and direction identification - Ambient light offset before bending - Fail-safe release when no power detected Technical Specifications Model: LFD-250B Manufacturer: EXFO Instrument Type: Live Fiber Detector Alias: LFD250B Fiber jacket types: 3 mm; 1.6 mm; 900 um Insertion loss maximum guaranteed: 1 dB Insertion loss typical 1550 nm: 0.5 dB Insertion loss typical 1310 nm: 0.



MODEL Exfo LFD-250B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU LFD-250B	LISTING https://aumictechlabs.com/products/lfd-250b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO LFD-250B is a handheld live fiber detector that identifies active optical fibers non-intrusively using step-motor-activated macro-bending technology. The instrument detects signal presence and traffic direction, pinpoints dark fiber through tone recognition at 270 Hz, 1 kHz, and 2 kHz, and measures in-line optical power - all without disrupting network traffic or damaging the fiber. Unlike traditional fixed-angle bending detectors, the LFD-250B continuously optimizes the bending angle to minimize insertion loss while maximizing detection reliability. The motor-

controlled approach ensures insertion loss remains ≤ 1 dB across all singlemode telecom fibers and wavelengths, with the fiber automatically released when no signal is detected, preventing stress-induced damage.

Technical Specifications

- Power Measurement Range: -35 dBm to $+20$ dBm
- Power Measurement Accuracy: 1 dB repeatability, achieved through insertion loss monitoring and exiting signal measurement with automatic coupling efficiency adjustment by jacket size
- Insertion Loss: ≤ 1 dB (guaranteed for all singlemode telecom fibers at all wavelengths)
- Tone Detection: 270 Hz, 1 kHz, 2 kHz
- Test Duration: <6 seconds
- Battery: Four AA alkaline or rechargeable cells; AC adapter available (indoor use only)

Key Features

- Motor-controlled fiber bending optimizes detection for each fiber type and wavelength
- Traffic direction verification via dual LEDs (left LED indicates rightbound traffic; right LED indicates leftbound traffic)
- Ambient light offset with optional push-down cap for high ambient light environments
- Tone signal LED for 270 Hz, 1 kHz, and 2 kHz identification
- Locating LED that flashes when the clamping mechanism engages
- Battery status monitoring with low-battery indicator

Compatibility & Integration

The LFD-250B accommodates 900 μm , 1.6 mm, and 3 mm jacket diameters. Use with caution on 250 μm fibers, as the clamping pressure may cause damage. The instrument is optimized for singlemode telecom fibers across all standard wavelengths.

Features & description

From manufacturer datasheet

Features

- Step-motor optimized bending angle

Applications

- Non-intrusive live fiber identification

LFD250B Characteristics / Specifications

PARAMETER	VALUE
Model	LFD-250B
Manufacturer	EXFO
Instrument Type	Live Fiber Detector
Alias	LFD250B
Fiber jacket types	3 mm; 1.6 mm; 900 um
Insertion loss maximum guaranteed	1 dB
Insertion loss typical 1550 nm	0.5 dB
Insertion loss typical 1310 nm	0.3 dB
Power range	25 to -35 dBm
Power measurement repeatability	±1 dB
Test time	less than 6 s
Tone detection	270 Hz; 1 kHz; 2 kHz
Traffic detection	yes
Direction identification	yes
Bending method	step motor activated
Size	245 mm x 45 mm x 55 mm
Weight without batteries	0.35 kg (0.8 lb)
Operating temperature	0 C to 50 C
Storage temperature	-40 C to 70 C
Relative humidity	0% to 93% non-condensing
Spec conditions	typical 18 C to 28 C; 1550 nm unless noted
Ambient light handling	ambient offset prior to bend; optional push-down cap
Discontinued date	2021-09-01
End of service date	2026-09-01
End of calibration date	2026-09-01

PARAMETER	VALUE
Replacement product class	LFD-300B / TG-300B family
Form	handheld live fiber detector
Primary use	SM live fiber ID and in-line power Notes Specs from EXFO LFD-250B specification sheet. Confirm battery type/count on the unit and whether the ambient-light cap is included.
Humidity	0% to 93% non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	0 C to 50 C
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Humidity	0% to 93% non-condensing
Relative humidity	0% to 93% non-condensing
Spec conditions	typical 18 C to 28 C; 1550 nm unless noted
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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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Form	handheld live fiber detector

Primary use: SM live fiber ID and in-line power

Notes

Specs from EXFO LFD-250B specification sheet. Confirm battery type/count on the unit and whether the ambient-light cap is included.

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.