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Data Sheet

August 13, 2026

FIS

FIS OV-VFL Fiber Visible Laser Fault Locator / Sold individually

The FIS OV-VFL is a compact, pen-style visible fault locator (635nm red laser) designed to quickly identify fiber breaks, bends, and faulty connections in optical networks. With continuous/pulse modes and a detection range of up to 10 km, it's ideal for field technicians and network installers.



MODEL FIS OV-VFL	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU OV-VFL	LISTING https://aumictechlabs.com/products/ov-vfl-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The FIS OV-VFL is a compact, pen-style visible laser fault locator designed for rapid field detection of fiber breaks, bends, and faulty connections in optical networks. Operating at 650 nm $\pm$ 10 nm, this Class 1 laser instrument emits a minimum of 1 mW in both continuous and pulsed modes, achieving detection ranges up to 10 km depending on fiber type and operating conditions. Technical Specifications Laser Type: FP-LD Wavelength: 650 nm $\pm$ 10 nm Output Power: 1 mW minimum Laser Safety Rating: Class 1 (IEC 60825-2:2011) Operating Modes: Continuous Wave (CW) and Modulated (Pulsed) Detection Range: Up to 10 km; 4 km single-mode, 3 km multimode typical Fiber Compatibility: Single-mode and multimode (simplex) Power Supply: 2 $\times$ 1.5 V AA alkaline batteries Battery Life: Approximately 50 hours at 1 mW output Operating Temperature: -10 °C to 45 °C Storage Temperature: -40 °C to 70 °C Relative Humidity: 0% to

95% (non-condensing) Weight: 120 g (without battery) Dimensions: $\phi 15 \times 180$ mm

Key Features

- Universal 2.5 mm optical adapter (SC, FC, ST compatible); optional 1.25 mm adapter for LC and MU connectors
- LED indicators: green (continuous mode), flashing green (pulsed mode), red/flashing red (low battery)
- Recessed function button with hold-to-power-on design
- Pen-style retaining clip and tethered semi-translucent dust cap
- Ruggedized metal construction with rubber protective guard
- Toggle between continuous and pulsed modes via single button control

Typical Applications

- Fiber break and damage detection in field installations
- Connection integrity verification in optical networks
- Rapid fault isolation for network troubleshooting
- On-site diagnostics for telecommunications and data center infrastructure

Compatibility & Integration

The OV-VFL accepts both single-mode and multimode simplex fibers. Standard 2.5 mm adapter accommodates SC, FC, and ST connectors; optional 1.25 mm adapter enables LC and MU connector support.

Features & description

From manufacturer datasheet

Features

- Pen-style visible red laser fault locator
- CW and modulated (pulsed) operating modes
- Universal 2.5 mm adapter (SC/FC/ST); optional 1.25 mm for LC/MU
- LED mode and low-battery indicators
- Recessed hold-to-power-on button
- Ruggedized metal body with rubber guard and clip
- Tethered dust cap
- Approximately 50 hour battery life at 1 mW

Applications

- Locating fiber breaks and severe macrobends
- Continuity and fiber-end identification
- Singlemode and multimode simplex troubleshooting
- Patch panel and enclosure fault finding
- Field installation and maintenance visual checks

OVVFL Characteristics / Specifications

PARAMETER	VALUE
Model	OV-VFL
Manufacturer	Fiber Instrument Sales (FIS)
Instrument Type	Visual Fault Locator
Alias	FIS OV-VFL; FIS pen-style VFL
Laser type	FP-LD
Wavelength	650 nm ± 10 nm
Output power	1 mW minimum
Laser safety	Class 1 (IEC 60825-2:2011)
Operating modes	Continuous Wave; Modulated Pulsed
Detection range max class	up to 10 km
Detection range SM typical class	about 4 km
Detection range MM typical class	about 3 km
Fiber compatibility	singlemode and multimode simplex
Output connector	2.5 mm universal adapter
Power supply	two 1.5 V AA alkaline batteries
Battery life	approximately 50 hours at 1 mW
Operating temperature	-10 C to 45 C
Storage temperature	-40 C to 70 C
Relative humidity	0% to 95% non-condensing
Weight without battery	120 g
Dimensions	φ15 x 180 mm
LED continuous mode	green
LED pulsed mode	flashing green
LED low battery	red / flashing red
Construction	ruggedized metal with rubber protective guard

PARAMETER	VALUE
Clip	pen-style retaining clip
Dust cap	tethered semi-translucent Notes Specs from FIS OV-VFL / FIS visual fault locator product documentation and E-series VFL specification tables. Confirm adapter set (2.5 mm vs optional 1.25 mm) with the shipment.
Humidity	0% to 95% non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	10 C to 45 C
Operating Temperature	10 C to 45 C
Humidity	0% to 95% non-condensing
Relative humidity	0% to 95% non-condensing
Weight without battery	120 g
Dimensions	φ15 x 180 mm
LED continuous mode	green
LED pulsed mode	flashing green
LED low battery	red / flashing red
Construction	ruggedized metal with rubber protective guard
Clip	pen-style retaining clip
Dust cap	tethered semi-translucent Notes Specs from FIS OV-VFL / FIS visual fault locator product documentation and E-series VFL specification tables. Confirm adapter set (2.5 mm vs optional 1.25 mm) with the shipment.

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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PARAMETER	VALUE
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Clip	pen-style retaining clip
Dust cap	tethered semi-translucent

Notes
Specs from FIS OV-VFL / FIS visual fault locator product documentation and E-series VFL specification tables.
Confirm adapter set (2.5 mm vs optional 1.25 mm) with the shipment.

Laser Safety

Laser safety: Class 1 (IEC 60825-2:2011) Operating modes: Continuous Wave; Modulated Pulsed Detection range max class: up to 10 km Detection range SM typical class: about 4 km Detection range MM typical class: about 3 km Fiber compatibility: singlemode and multimode simplex Output connector: 2.5 mm universal adapter Optional adapter: 1.25 mm for LC and MU Power supply: two 1.5 V AA alkaline batteries Battery

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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NIST-traceable calibration · SAM registered ·
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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.