

VFI4 VISUAL FAULT IDENTIFIER

VISUAL FAULT LOCATOR

PRODUCT OVERVIEW

A Visible Fault Identifier (VFI), also referred to as a Visual Fault Locator (VFL), is an essential tool for fibre installation and maintenance technicians.

AFL's compact VFI4 injects high-powered red-laser light to provide exceptional brightness and range for locating defects in single-mode and multimode fibres. The light generated by these units will escape from sharp bends and breaks in jacketed or bare fibres, as well as poorly mated connectors enabling technicians to quickly spot faults. The universal connector interface mates with many connector styles without needing an adapter.

Rugged and Compact: The rugged VFI4 is designed for the rigours of real-life field testing. It has a range of up to 10km, fits on a keyring, and features extensions that protect the red-laser port. It has both CW and pulsating modes and is powered by a single AA battery for up to 30 hours of operation.

Installation and Activation: VFI4 is used for quick continuity checks, fibre tracing, splice verification, and Pass/Fail validation for mechanical connectors. VFI4 is also an excellent complement to any OTDR because it can locate faults inside the OTDR's dead zone.

Essential Troubleshooting Tool: The VFI4 highlights sharp bends, breaks, faulty connectors, and other defects that "leak" light. Other applications include end-to-end continuity checks, as well as identifying connectors in patch panels and fibres during splicing operations.



Features

- Eye-safe Class 3R visible red laser source, 650 nm
- Output power of 5.0 mW with 10 km range
- Universal connector interface for quick connection
- 2.5 mm universal adapter (included) accepts FC, SC, ST, etc. connectors
- 1.25 mm universal adapter (included) accepts LC and MU connectors

Applications

- Identify and trace fibers during activation and installation
- Identify poorly mated connectors
- Verify AFL's FASTConnect® field-installable connector installation
- Find faults inside OTDR dead zones

Specifications ^a

Optical	
Emitter Type	Laser, Class IIIa FDA 21 CFR 1040.10 and 1040.11, Class 3R IEC 60825-1:2014
Wavelength	650 nm ±15 nm
Output Power	5 mW maximum
Modulation	2 Hz or CW selected

General	
Adapter	2.5 mm Universal, 1.25 mm Universal
Power	1 AA battery, <30 hours (Flash mode)
Operating Temperature	-10°C to 50°C, 85 % humidity non condensing
Storage Temperature	-30°C to 60°C, 95 % humidity non condensing
Size (H x W x D)	7.9 x 5.1 x 2.2 cm (3.1 x 2.0 x 0.9 in)
Weight	43 g (1.5 oz)

Notes:

a. All specifications at 25 °C unless otherwise specified.

Ordering Information

Part Number	Description
VF14-01-0900PR	VF14 visual fault identifier with 2.5 mm and 1.25 mm adapters

Adapters

Part Number	Description
2900-50-0013MR	2.5 mm Universal for VF1 port
2900-50-0012MR	1.25 mm Universal for VF1 port

Qualifications

Category	Regulation / Standard	Qualification
CE Marking	EU	Compliant to relevant EU Directives on health, safety, and environmental protection, and certified with CE marking
Safety/EMC/EMI	IEC	Compliant to IEC 61010-1 for safety requirements for electrical equipment
	EN	Compliant to EN 61010-1 for safety requirements for electrical equipment
	IEC	Compliant to IEC 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 55011 for EMC requirements for industrial, scientific and medical equipment
	FDA	Compliant to code of federal regulations FDA 21 CFR 1040.10 and 1040.11 on laser products
	IEC	Compliant to IEC 60825-1 for safety of laser products
RoHS	EU	Compliant to EU regulations Directive 2011/65/EU (RoHS 2) and Directive 2015/863 (RoHS 3)