



Fault Detector KVFL650-2

Description

This type KVFL650-2 is specially designed for field personnel who need an efficient and economical tool for fiber tracing, fiber routing and continuity checking in optical networks. It finds breakpoints, poor connections, bending or cracking in fiber optic cables; and it can find faults in an OTDR dead zone and is used for end-to-end visual fiber identification.

Application

- Maintenance in telecom, CATV
- Test Lab of optical fibers
- Fiber routing and continuity checking in optical networks
- Other fiber optic measurements

Features

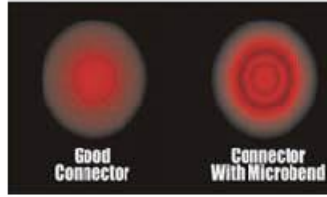
- 2.5mm universal connector, for 1.25mm connectors,
- FC(male)-LC(Female) adaptor also can be provided on request
- Operates either in CW or Pulsed mode with constant
- output power
- Low battery warning
- Long battery life (up to 60 hours)
- Drop-resistant and dust-proof design of laser head
- Laser case ground design prevents ESD damage
- Portable and rugged
- Easy to use

Product Description

The Visual Fault Locator launches 650nm visible laser light into the fiber. When the light encounters a break or sharp bend, it scatters, and the scattered light can be observed emerging from the cable. The Visual Fault Locator can locate breaks in short patch cords,

Data Sheet

which an OTDR cannot detect due to them operating dead zone. A fault locator is also much cheaper than an OTDR. However, they are not recommended for using with dark-colored or armored cables.



The Visual Fault Locator can be operated in either continuous wave mode (CW mode) or in pulsed mode. Pulsed mode aids in locating faults under high ambient light conditions and improve battery life. It also could be used in checking connector quality. Often a connector may appear to be perfect. But inside the connector ferrule itself, poor gluing or dirty may create a microbend in the fiber. This microbend will produce excess insertion losses or return losses, and may result in premature failure of the connector. As the visual light launches through the fiber, it emerges from the connector in question, one can readily see the distortion as a series of rings superimposed on a normal output. Bending or twisting the fiber may affect the overall intensity pattern, but not the ring pattern itself.

Specification

Model	KVFL650-2				
Central wavelength	650nm±10nm (635nm is available on request)				
Emitter type	FP-LD				
Output power	1mw	5mw	10mw	20mw	30mw
Laser Range	≥1km	≥5km	≥10km	≥20km	≥30km
Optical connector	2.5mm universal connector, for 1.25mm connectors, FC (Male)-LC. (Female) convertor can be provided on request				
Operating mode	Both CW and Pulse available				
Pulse frequency	2Hz to 3Hz / 9Hz				
Power supply	2AA alkaline batteries				
Battery	LR6 AA alkaline battery				
Operating temperature	-20°C to 60°C				
Storage temperature	-40°C to 85°C				
Dimension	23 x 190mm				
Weight	80g (without battery)				