

# **KI6358 / T6358 Series**

## **Visible Fault Locator**

### **Operation Manual**

#### **Safety:**

The instrument emits visible laser light in the wavelength range of 650-660 nm. The maximum optical output power is 1.7 mW so that the device meets **Laser Class 1** (IEC 60825-2:2021) power specifications. During normal operation, the laser light is not dangerous, but we still recommend that you do not look directly into the laser output or into the end of a fiber connected to the fault locator.

#### **Application:**

The instrument is suitable for performing continuity checks and locating faults on single-mode and multimode optical fibers and components. A range of up to 5 km can be achieved in certain cases. A single universal adapter provides matching to all standard 2.5 mm optical fiber connector systems. The battery lifetime in blink mode is approx. 40 hours for alkaline batteries.

#### **Operation:**

The instrument can be switched on or off by depressing the blue button near the optical adapter for 2 seconds. With the same button the operator can select between a continuous light mode and a flash mode with approx. 3 Hz. The instrument is equipped with a captive dust cap. Remove the cap when using the device. Replace the cap after use to protect the optical adapter. The optical connector must be inserted all the way into the adapter.

## Changing batteries:

The instrument does not come with battery.

To open the instrument, unscrew metal cap at the top of instrument. Remove the batteries and replace with new ones (2x 1.5v-AAA) then reattach the cap.

For correct polarity the positive (+) poles of the batteries should point towards the laser. We recommend using Al-Mn batteries. Please remove batteries if device is not going to be used for long period of time.



## Protect our environment!

When you change the batteries, please do not throw them away with other trash, as they may contain toxic heavy metals. If a suitable facility is available in your area, old batteries should be returned to a recycling or toxic waste disposal center. In many countries you could alternatively return old batteries to the point of purchase. Battery cells purchased from Kingfisher can be returned.

## OPTICAL SPECIFICATIONS

Parameters	Value
Wavelength	655 ± 5 nm
Output power (typical) <sup>1</sup>	1.3 mW (1.0 dBm) @ 50/125 µm 0.7 mW (-1.3 dBm) @ 9/125 µm
Useful distance/range <sup>2</sup>	Up to 5 Km
Connector	2.5 mm universal
Working mode	CW & 2-3 Hz modulation
Retention force for ferrule	1-2 N
Laser protection class	IEC60825-2:2021, 21CFR1040.10 <sup>3</sup> (FDA) Class 1 (Fiber Coupled / Uncoupled)

**Note 1:** With PC polish connector. Coupled power into an APC connector is less. Max permissible power for Class 1 laser is 1.95mW. Many purple cables do not.

**Note 2:** Some cable materials can absorb red light. Standard 3 mm yellow and orange patch leads generally provide good visibility.

**Note 3:** Labelling for this product defers to IEC 60825-2 as per CDRH Laser Notices No. 56 (2019). Annual FDA reports are lodged by Kingfisher.

## GENERAL SPECIFICATIONS

Parameters	Value
Operating temperature	-10 to +45 °C
Storage temperature	-40 to + 70 °C
Relative humidity	95%
Power	2 AAA alkaline batteries (not included)
Battery life, Pulsed mode	> 40 hours
Weight	83 g including batteries
Size	18 x 160 mm
Warranty	3 years

## ORDERING INFORMATION

Description	Part Number
Instrument, Source, Visual Fault Locator Pen VFL, Class 1, Universal 2.5mm	KI6358 (Kingfisher model #) T6358 (Tempo model #)

## STANDARD ACCESSORIES

Description	Quantity
Rubber grip sleeve with captive dust cap (mounted on instrument)	1
Protective case	1
Operation manual	1

## OPTIONAL ACCESSORIES

Description	Part number
Option, Connector Adaptor, 2.5 Male-1.25 mm Female, Ceramic, SM	OPT189

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