

KI 6359 Series

Visible Fault Locator (High Power)

Operation Manual

Safety:

The KI6359 emits visible laser light in the wavelength range of 650-660 nm. The maximum optical output power is 6 mW (@ 50/125 μ m) so that the device meets **Laser Class 2M** (IEC 60825-2:2021) power specifications. Eye protection for this class of laser is normally by aversion responses (such as eye blink reflex) but may be more hazardous if the user employs optics within the beam.

Application:

The KI6359 is suitable for performing continuity checks and locating faults on single-mode and multimode optical fibers and components. A range of up to 10 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 KI6359 is equipped with a dust cap. Remove the plastic 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:

KI6359 does not come with battery.

To open the instrument, unscrew the 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 ¹	< 5 mW (7 dBm) into SMF < 6 mW (7.8 dBm) into 50/125 µm MMF
Useful distance/range ²	Up to 10 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 ³ (FDA) Class 2M (Fiber Coupled / Uncoupled)

Note 1: With PC polish connector. Coupled power into an APC connector is less. Max permissible power for 650 nm fiber coupled laser of Class 2M is 9.7 mW.

Note 2: Some cable materials can absorb red light. Standard 3 mm yellow and orange patch leads generally provide good visibility. Many purple cables do not. Typical guidance only, may be less.

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	Up to 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 2M, Universal 2.5mm	KI 6359

STANDARD ACCESSORIES

Description	Quantity
Operation manual	1
Dust cap	1
Protective case	1

OPTIONAL ACCESSORIES

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

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