LightFinder™

Making FIBER IDENTIFICATION Easy.

FIBER IDENTIFIER ID-H

LIGHT SOURCE ID-L
Making FIBER IDENTIFICATION Easy.

ID-H/NA Description:

The FITEL LightFinder™ ID-H Fiber Optic Identifier is a lightweight, handheld, easy-to-use tool to safely and effectively identify the transmission direction, fiber path, and relative core power on live optical fibers.

The LightFinder™ Fiber Optic Identifier uses the super-low insertion loss local detection method of macro-bending. This allows for detection of the optical signals during installation and maintenance without disconnecting the fiber or interrupting the traffic signal. The LightFinder™ eliminates the need to open the optical fiber at the splice point reducing the probability of interrupting service to your customer.

The easy to use, interchangeable adapter heads for jacketed, coated, or ribbon fiber allows for identification of the specific type of optical fiber being used in most cabling systems. The illuminated LED display and audible tone indicators ensure clear identification of the optical fiber.

ID-H/NA Product Features:

- Easy to use Hand-held installation and maintenance tool
- Lightweight design for handheld use
- Carrying case attaches easily to belt or tool pouch (*included*)
- Battery powered for portable use
- Interchangeable adapter heads for jacketed, coated, or ribbon fiber
- LED displays and audible tone indicators for clear identification
- Detects the tone signal and traffic signal without requiring disconnection of the optical fiber
- Detects 270Hz, 1kHz, and 2kHz tone signals
- Super low insertion loss compared to other competitors’ products
- Used in conjunction with the Fitel ID-L Light Source
**ID-L/DA Light Source Description:**

The *Light Source ID-L* used in conjunction with our *LightFinder™* fiber optic identifier offers you all the right tools to make your job easier. The *ID-L* is a light weight, hand-held unit that features a single button control to change the output mode from CW, 270Hz, 1kHz, and 2kHz. The *ID-L* is battery powered and includes an auto-shutdown function.

**ID-L/DA Product Features:**
- Operates more than 16 hours by battery (*auto shutdown function*)
- SC, FC, ST, DIN and DIA connectors are available
- Lightweight design for easy handling
- Removable adapter for easy cleaning
- Used in conjunction with the *Fitel ID-H LightFinder™* optical identifier

---

**Example of Application**

Detecting the tone signal, the *LightFinder™* fiber optic identifier emits continuous sounds and illuminates directional LED arrows to show the Signal direction and Tone signal using the LED display.

In the case of detecting the traffic signal, the *LightFinder™* fiber optic identifier emits intermittent sounds and illuminates directional LED arrows.

**Identifies the dark fiber**

**Differentiates the type of signal by intermittent buzzer sounds.**

Make sure to launch the tone signal to the dark fiber and confirm the detection before disconnecting it.
## ID-H and ID-L Construction

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Product Name</th>
<th>Code</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-H/NA</td>
<td>Main Unit</td>
<td>ID-H-101</td>
<td>Battery and Strap, Instruction manual included</td>
</tr>
<tr>
<td></td>
<td>Adapter Head (For single fiber and ribbon)</td>
<td>ID-H-102</td>
<td>Applicable for following SMF: Up to 12-fiber ribbon; 250µm single fiber</td>
</tr>
<tr>
<td></td>
<td>Adapter Head (For tight buffer)</td>
<td>ID-H-103</td>
<td>Applicable for SM 900µm tight buffer</td>
</tr>
<tr>
<td></td>
<td>Adapter Head (For 1.6mm cordage)</td>
<td>ID-H-104</td>
<td>Applicable for SM 1.6mm cordage</td>
</tr>
<tr>
<td></td>
<td>Adapter Head (For 3.0mm cordage)</td>
<td>ID-H-105</td>
<td>Applicable for SM 3.0mm cordage</td>
</tr>
<tr>
<td></td>
<td>Carrying Case</td>
<td>ID-H-106</td>
<td>Easily fits belt/tool pouch</td>
</tr>
<tr>
<td>Option</td>
<td>Adapter Head (For 2.0mm cordage)</td>
<td>ID-H-107</td>
<td>Applicable for SM 2.0mm cordage</td>
</tr>
<tr>
<td>ID-L/DA</td>
<td>Main unit</td>
<td>ID-L/DA</td>
<td>Battery included (Specify connector type)</td>
</tr>
<tr>
<td>Option</td>
<td>Carrying Case</td>
<td>ID-L/XA1</td>
<td>Easily fits belt/tool pouch</td>
</tr>
</tbody>
</table>

## ID-H and ID-L Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>ID-H Specification</th>
<th>ID-L Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicable Fiber</td>
<td>Up to 12-fiber ribbon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>250µm single fiber</td>
<td>900µm tight buffer</td>
</tr>
<tr>
<td></td>
<td>900µm / 1550nm</td>
<td>Cordage</td>
</tr>
<tr>
<td>Applicable Wavelength</td>
<td>1310 / 1550nm</td>
<td></td>
</tr>
<tr>
<td>Frequency for Tone Signal*1</td>
<td>270Hz, 1kHz and 2kHz</td>
<td>CW, 270Hz, 1kHz and 2kHz</td>
</tr>
<tr>
<td>Launch Power</td>
<td></td>
<td>More than -5dBm</td>
</tr>
<tr>
<td>Insertion Loss *2 (Typical)</td>
<td>1310nm: 0.1dB 1550nm: 0.1dB</td>
<td>1310nm: 0.1dB 1550nm: 0.5dB</td>
</tr>
<tr>
<td></td>
<td>1550nm: 0.5dB</td>
<td>1310nm: 0.5dB</td>
</tr>
<tr>
<td>Minimum Receiving Level *2 (Typical)</td>
<td>1550nm: -38dBm</td>
<td>1550nm: -33dBm</td>
</tr>
<tr>
<td></td>
<td>1550nm: -25dBm</td>
<td></td>
</tr>
<tr>
<td>Indication for Traffic Signal</td>
<td>Direction LED illuminates + Intermittent buzzer sound</td>
<td>Standard: SC Connector (Possible to clean the ferrule)</td>
</tr>
<tr>
<td>Indication for Tone Signal</td>
<td>Direction LED and Tone signal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LED illuminates + Continuous buzzer sound</td>
<td></td>
</tr>
<tr>
<td>Connector Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Time</td>
<td>8 hours (Using alkaline battery)</td>
<td>16 hours (Using alkaline battery)</td>
</tr>
<tr>
<td></td>
<td>(Auto shutdown functionality)</td>
<td>(Auto shutdown functionality)</td>
</tr>
<tr>
<td>Dimensions (W+D+H)</td>
<td>40mm * 60mm * 150mm</td>
<td>128mm * 70mm * 22.5mm</td>
</tr>
<tr>
<td>Weight</td>
<td>160g (Including battery)</td>
<td>160g (Including battery)</td>
</tr>
</tbody>
</table>

*1: Duty ratio 50%
*2: This specification is based on our optical fiber with our test method.

Furukawa Electric reserves the right to improve, enhance and modify the features and specifications of this product without prior notification.

Contact Us:
Fusion Splicer Customer Service, Training and Service Center
417 Dividend Drive
Peachtree City, GA 30269
USA
Toll Free: 866-452-9516
Phone: 678-783-1090
Fax: 678-783-1093
Email: splicers@ofsoptics.com