FITEL

Bound to Innovate

FIBER IDENTIFIER
ID-H/R

The FITEL ID-H is a rugged, user-friendly tool which identifies optical fibers by detecting the optical signals passing through the fiber utilizing local detection technology.
The feature and benefits are:

★**Wide dynamic range.**

★**No Head changing or adjustments.**

★**LCD screen adoption.**
(Detection Light Level , Modulation Light Frequency , Machinery Information)

★**Offset function of light level.**
(Offset adjustment is possible from 0 to 50dB at 1dB step.)

★**Detects the signal without disrupting traffic.**

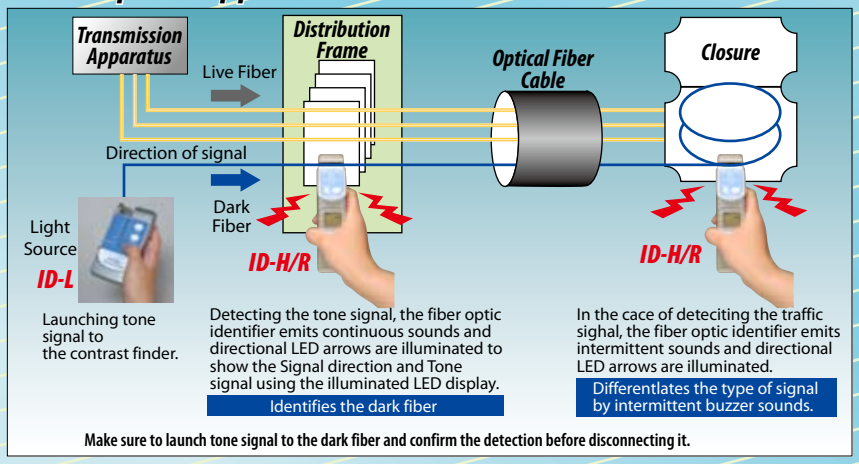
★**Detects the tone signal and traffic signal.**

★**Lighted LED displays for clear identification.**

★**Lightweight design for easy handling.**

★**Super low insertion loss.**

◆ Example of Application



◆ Construction

Ordering Code	Product Name	Code	Remarks
ID-H/R	Main Unit	AI02H	Battery and Strap and Instruction manual are included
	Carrying Case	AI02H-001	Easily to belt or tool pouch

FURUKAWA ELECTRIC

FIBER IDENTIFIER ID-H/R

◆ Specifications

Item		Specifications			
Product Code		AI02H			
Applicable Wavelength		900 to 1700 nm			
Frequency for Tone Signal		270Hz and 1kHz and 2kHz (Duty ratio 50±10%) Modulation Light No Modulation Light Communication Light that Continued			
Dynamic Range*1		0 to -80 dBm			
Applicable Fiber		0.25mm Single Fiber 2 to 12 Fiber Ribbon		1.1 to 3mm Cordage	0.9mm Tight Buffer (Reference Data)
		ITU-T G.657A	TU-T G.652		
Maximum Insertion Loss	1310nm	0.1dB	0.1dB	0.5dB	0.5dB
	1550nm	0.5dB	1.0dB	2.0dB	2.0dB
	1650nm	1.0dB	2.5dB	3.0dB	3.0dB
Minimum Detecting Level in Fiber (Typical)*2	1310nm	-30dBm	-40dBm	-30dBm	-30dBm
	1550nm	-40dBm	-50dBm	-40dBm	-40dBm
	1650nm				
Maximum Detecting Level in Fiber (Typical)*2		+30dBm			
LED Indication		No signal, Tone, Direction			
LCD Indication		Power Level, Tone Signal Frequency, Battery Level			
Indication for Traffic Signal or Tone Signal		[Traffic Signal *3] Direction LED illuminates + Intermittent buzzer sound + Displayed an Optical power measurement range by LCD [Tone Signal] Direction LED illuminates + Tone LED illuminates + Continuous buzzer sound + Displayed an Optical power measurement range by LCD + Displayed Frequency by LCD			
Battery		AA Battery (LR6) × 2			
Operating Time		8hours (Typical)			
Operating Conditions		Temperature -10° to +50°C Humidity < 95% (None-condensing)			
Storage Conditions		Temperature -20° to +60°C Humidity < 95% (None-condensing)			
Dimension		40(W) mm × 65(D)mm × 153(H)mm			
Weight		160g (Including Batteries)			
EMC		EN61326			

*1: The leaked power from optical fiber.
*2: This specification is based on the optical fiber made of our company.
*3: DO NOT disconnect or rewire based only on the traffic signal detection. Make sure to launch the tone signal before disconnecting or rewiring the fiber.

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