



FIBER Telecom & Datacom  
OPTIC Sensors & Sensing Systems

# Fiber Seeker

## Applications

- Channel identification
- Tracing of fiber connection from point to point
- Elimination of connectivity mistakes during fiber deployment

## Advantages

- Simple and fast solution, Portable
- Full scalability of the system: 1 transmitter with several receivers and also several transmitters with 1 receiver

## Parameters

- Number of channels: basic model: 24 (scalable up to 192)
- Detection threshold: > 8km of single-mode fiber
- Power consumption:
  - Transmitter <150mW/channel
  - Receiver <200mW
- Supply voltage: 9V
  - Transmitter: 6xAA battery
  - Receiver: 6F22 or 6LR61 battery

## Accessories

- MTP-SC/APC 12-fiber fanout ... 2pcs (Transmitter)
- SC/APC-SC/APC 1-fiber patchcord ... 1pc (Receiver)
- Other fanouts and patchcords available upon request

## Description

The SYLEX and Crosswise collaborated 'Fiber Seeker' product is specifically designed to identify the beginning and end of each individual optical channel, up to 192 fibers concurrently.

The unmatched simple system was designed for quick and easy identification of fibers in the "jungle" of deployed bundled cables, subscriber connections and dark fibers. It consists of transmitter and one or more receivers. Transmitter sends specially coded alphanumeric characters. One transmitter can have 24 channels (fibers) and each transmitter could be prefixed with letter A...H, resulting into 24x8=192 unique codes that the system can distinguish.

This makes the whole system scalable and modular. The output of coded signal from the transmitter is realized through the MTP connector. This fact is giving another advantage of the system – only few MTP to SC or LC fanouts are needed as accessories instead of high number of patchcords which would be required otherwise.

Receiver is a handheld unit receiving the coded characters from the transmitter and displaying it on embedded display. It is sensitive enough to operate behind 8km of single-mode fiber and 4 standard APC connections.

Both units are compact and lightweight with very small power consumption.

With several receivers it is possible to check the connection between the distribution node and more end-locations in the same time (or even apply more transmitters and one receiver), and thus reducing necessary network down-time and cost for the servicing personnel.

## Availability

- September 2012

## Patent pending

