

## Sibille Fameca Electric

RN 7 Sud - ZI Les Plaines n°17  
26780 Malataverne  
FRANCE

Tél. : (0033) 04 75 90 58 00  
Fax : (0033) 04 75 90 58 39  
E-mail : contact@sf-electric.com  
Internet : www.sfe-export.com



# FC-5000

## LOW VOLTAGE CABLE AND PHASE IDENTIFICATION SYSTEM

The FC5000 allows cable and phase identification on low voltage energized cables. It is used to identify customer connections, to balance the network and to better understand network design.

### Operation

The FC5000E transmitter is first connected between the system phases, at the end of a group of cables. Between two phases, the transmitter draws a current whose frequency is different from that of the system or its harmonics.

### Identifying a Group of Cables

Cable groups are identified by moving the detector head along the cables. An acoustic and light signal locates the cable group connected to the transmitter. The detector, or its external probe (optional), is then moved to where the cables separate and the cables can be individually tested to determine the specific phase.



### Major Advantage of the FC5000

#### FC5000E Transmitter

- Drainage current transmission, up to three phases simultaneously.
- Easy to connect with low-capacity connectors.
- Operating voltage, 180 to 440 volts
- Transmission on live cables.
- Operates on high-load cables.
- Uses two different drainage frequencies to identify phases.
- Integrated filtering which meets EU Standards on conducted transmissions.
- Polyethylene casing, 30cm X 40cm X 30cm which is highly resistant to shocks and abrasion.

#### FC5000D Detector

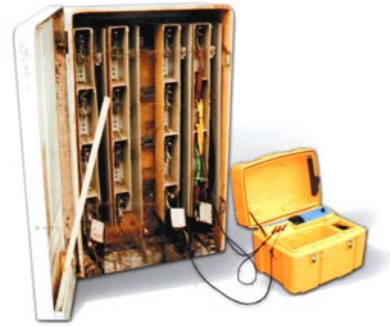
- Easy to operate and read.
- Digital multiple-frequency detection
- Magnetic sensor located on the end of the casing.
- High resolution acoustic detection frequencies.
- Filtering of network frequencies and harmonics.
- External probe connector.
- Detection frequency supported by a crystal clock.
- Compact and ergonomic 3-mm thick polyurethane casing, colour-matched with the carrying case.
- Over-moulded external polyurethane probe used as an extension of the casing's sensitive zone.



## Technical Specifications

### FC5000E transmitter

Number of Channels	2
Average drainage current	4 A/channel
Average direct current	150-250 mA/channel
Peak current	9 A peak
200 volts min.	18 A peak
400 volts max.	
Operating voltage, min.	180 volts
max.	450 volts
Overcharge voltage	600 volts
Maximum protected voltage	800 volts
Maximum internal protected temperature	72°C ± 3
Drainage frequency	Audio > 1kHz
EU filter	150 kHz-20 MHz
Display	3 high-performance leds
Battery condition indicator	2 leds
Weight	9 kg



### FC5000D receptor

Battery voltage	4-6 volts
Battery type	4 alkaline AA batteries
Weight	383 g
Type of plastic	Polyurethane
Detection frequency	Programmable in audio frequencies
Detection technology	Fourrier analysis FFT
Plastic connector	Redel, from Lemo (Switzerland)



### FC5000D external probe (optional)

Design	Over-moulding
Type of plastic	Polyurethane
Sensitivity	Detector-controlled
Plastic connector	Redel, from Lemo (Switzerland)

