

Description

The Track Finder HG G-81933, in combination with the steering sensor HG G-19330, allows the testing of guidance wire loops in the ground.

The frequencies can be selected via three switches on the front plate. This selection depends on the frequencies available in the steering sensor. The variants of the steering sensor and the corresponding frequencies are shown in the data sheet HG G-19330. The height of the steering sensor above the wire and the current result from the values given in the data sheet HG G-19330 as well.

The Track Finder HG G-81933 contains two analogue measuring instruments with corresponding scale markers:

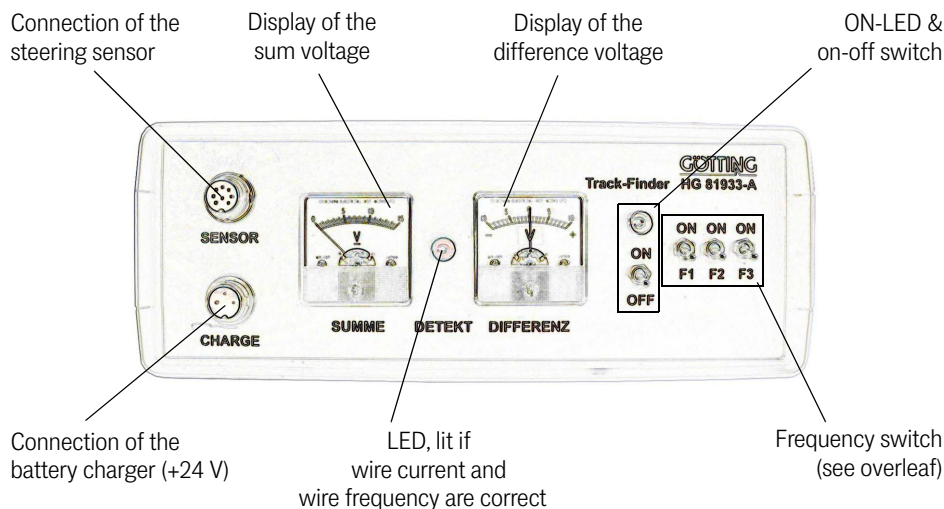
1. Sum shows the field strength around the wire. The maximum field is above the center of the guide wire.
2. Difference shows the deviation of the sensor from the center position.



In between the scale markers there's the LED „Detekt“. This LED indicates that the guide wire has the correct current and frequency.

The steering sensor is connected via an 8 pin circular connector on the front plate. The device is powered by an internal 24 V lead battery which may be re-charged with a 24 V battery charger.

Operating Controls



Brief Instruction

1. Connect the steering sensor HG G-19330WA and the Track Finder with the cable.
2. Select the wire frequency according to the steering sensor description.
3. Place the steering sensor above the guide wire, observe its nominal reading height. Turn the Track Finder on (green ON LED lit).
4. Wire detected: Yellow LED Detekt lit. Center of the guide wire: Differenz at „0“ and Summe at maximum.
5. Now the placement of the guide wire can be detected by moving the Track Finder and following the wire.

Selection of Frequencies

Freq. Switch \	1	2	3	4	5	6	7	8
F1	-	ON	-	ON	-	ON	-	ON
F2	-	-	ON	ON	-	-	ON	ON
F3	-	-	-	-	ON	ON	ON	ON

The resulting frequencies depend on the steering sensor variant and are shown on the data sheet HG G-19330

Pin Assignment

8 pin connector for steering sensor HG G-19330

Pin	Description	Pin	Description
1	F1	5	Summe
2	F2	6	Detekt
3	F3	7	GND
4	Differenz	8	+24 V

3 pin connector for the battery charger

Pin	Description
1	+24 V
2	GND
3	-

Technical Data

- Casing dimensions 260 x 110 x 250 mm (W x H x D excluding handle)
- Sensor connector Binder Plug (Type 09 0173 8008)
- Assignment (wire colour / PIN) Difference voltage (white/Pin 4); Sum voltage (brown/Pin 5); Sum voltage detector (green/Pin 6); Freq. select F1 (yellow/Pin 1); F2 (grey/Pin 2); F3 (pink/Pin 3); 0 Volt (GND; blue/Pin 7); +24 V (red/Pin 8); Shield (-)
- Operating voltage +24 V (internal battery)
- Current consumption approx. 100 mA
- Difference voltage detector -10 bis +10 V
- Sum voltage detector 0 V / 24 V
- Environmental temperature 0 to 40° C
- Frequencies 8 different frequencies (see data sheet HG G-19330)
Selection via F1, F2 and F3 (see above)