

Locking Receiver FE-61

Precise • Extremely Compact • Highly Useful

The locking receiver FE-61 was specially developed for the GEO-Laser models RL-87L, PL-95L and UL-89L to fix the laser plane by locking the plumb beam. It can be used as a control receiver, measurement receiver or as a remote control.

The function principle is as easy to understand as brilliant: When the FE-61 receives a stationary or rotating plumb laser beam it automatically directs it to a previously selected position (center of measurement quadrant).

- possible accuracy up to 1 mm/100 m
- range up to 100 m
- waterproof, robust and reliable

Operation is possible horizontal, vertical, in alignment, with every inclination and even on swaying platforms.

Optionally only the Y-Axis (direction) or the Y-Axis and the X-Axis can be locked.

Description

Robust metal housing:
Plastic coated, watertight.
M5-mounting thread at the back of the housing.

Marking notch

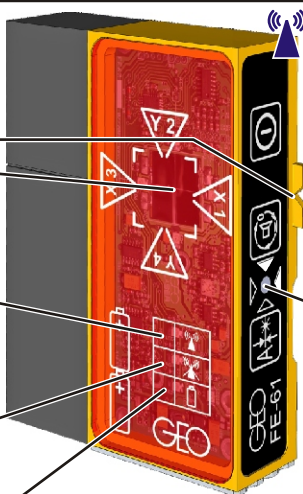
Measurement quadrant
with solarcell-sensor and LED-display

Power LED

Locking Receiver:
LED blinks = setting up connection
LED off = connected
LED on = connection error

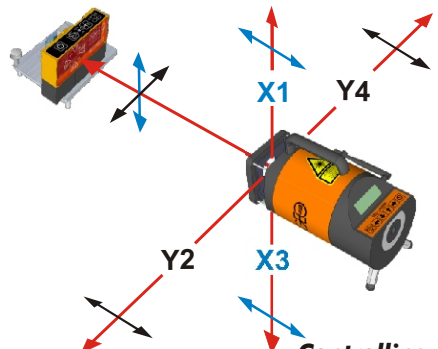
Measurement Receiver:
LED blinks = turned on
LED off = turned off

Operating Condition:
LED blinks slow = FE-61 turned on
LED blinks fast = battery low
LED on = FE-61 turned off



Battery Compartment
Turn in direction of arrow to open. Regard the polarity of the batteries.

Remote control LED
Y-Achse: LED blinks slow
X-Achse: LED blinks fast



Controlling principle

Easy use



= Turn on/off

1 x short = turn on: the FE-61 operates as a measurement receiver.

Move the FE-61 into the laser beam until the detection is displayed through LEDs and signal tones.

To achieve the favoured precision move the FE-61 in direction of arrow.

1 x long = turn off

Hold the key until the Power LED illuminates, attended by a tone sequence or automatically after approx. 10 min. without reception.



= Sound loud, quiet or off



= Automatic locking

1 x short = the wireless connection to the laser is setting up.

As the rotating plumb beam is detected by the receiver, it gets automatically centered and locked. By shifting the receiver the position of the laser plane can be moved and thus determined. The radio connection is displayed through symbols at the laser display and LEDs at the receiver.

Converse blinking of the LEDs means: the center is located and the laser beam is locked.

To turn off the locking function turn off the receiver.

Remote control

There is the opportunity to determine the height and direction of the laser beam with the receiver FE-61.

To activate the remote control push the on key while turning on the receiver, until the remote control LED blinks.

With the keys beside of the LED the Y-Axis can be adjusted.

To switch to the height (X-Axis) push the turn on/off key short again. The remote control LED blinks faster.

Now the height can be set with the keys beside the LED.

Pushing the button again switch to the measurement receiver function.

Technical data:

Reception: Laser (633 - 815 nm)
Working distance Ø von 5 - 20 mm, 0.8 - 2 mW
Distance to lamps and power lines 2 - 100 m, depends on laser
Accuracy measurement receiver: > 1.5 m
Accuracy locking automatic: up to ± 0,1 mm
..... up to ± 1 mm/100 m
Signal tone: loud, quiet or off
Power supply: 2 x AA cells (disposable/rechargeable)
Current consumption: approx. 100 mA (operating time up to 20 h)
Housing: watertight, except battery compartment
Measurements / weight: 140 x 100 x 32 mm / 0.52 kg
Frequency range: 2.4 Ghz ISM band
Transmitting power: < 100 mW (EIRP)
Warranty: 24 months
CE: certified

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- Construction lasers
- Special applications
- Automatic tripod
- Measuring systems and lasers for tunneling and pipe jacking

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